

aiwa

**OPERATING INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MODE D'EMPLOI**

IC-DP200

**IC Recorder
Grabador En Circuito Integrado**

ENGLISH

ESPAÑOL

FRANÇAIS

OWNER'S RECORD

For your convenience, record the model number and the serial number (you will find them in the battery compartment of your set) in the space provided below.

Please refer them when you contact your Aiwa dealer in case of difficulty.

Model No.

Serial No.

Safety Precautions

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Modifications or adjustments to this product, which are not expressly approved by the manufacturer, may void the user's right or authority to operate this product.

This Class B digital apparatus complies with Canadian ICES-003.

DECLARATION OF CONFORMITY

AIWA AMERICA INC. declares, in sole responsibility, that the following product referred to in the declaration conforms to the following standard, tested on the basis of FCC standard with the Class B device.

Type of product : IC Recorder

Brand Name : AIWA

Model Name : IC-DP200

ANSI C63.4 1992

FCC PART 15 SUBPART B

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; and (2) this device must accept any interference received, including interference that may cause undesired operation.

AIWA AMERICA INC.

**800 Corporate Drive, Mahwah NJ
07430-2048 U.S.A.**

Tel: 201-512-3600

Fax: 201-512-3710

Electrical products can work only if they are handled properly. Product misuse can result in personal injury from fire or electrical shock. Read and abide by the safety instructions to avoid accidents. The safety instructions are divided into two levels according to the magnitude of accidents that are anticipated if the product is not handled properly.

 WARNING

This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions.

 CAUTION

This symbol alerts you to the possibility of personal injury or property damage if you do not follow the instructions.

 WARNING

Do NOT disassemble or modify this product

Electrical shock or personal injury could result.

Do NOT use the product near water

The batteries could overheat and cause you to burn your fingers. Exercise caution when using the product outdoors while it is raining or snowing.

Do NOT use the headphones or shoot while driving an automobile, motorcycle or the like or while walking

You could fall or have a traffic accident. Watch where you are going if using the product while walking.

Pay attention to the surrounding situation when shooting

Shooting without paying due attention to the surrounding situation could result in an accident, possibly personal injury.

 CAUTION

- Do NOT listen to recordings for long periods with a high volume setting. Extended periods of continuously listening to recorded sound with a high volume setting may be stimulating but have a detrimental effect on your hearing.
- Do NOT begin listening with too high a volume setting. Turning up the sound volume to an excessive level in a mute state might result in high sound volume being played abruptly, which may impair your hearing.
- Do NOT aim the viewfinder directly at the sun or any intense light source. Doing so can damage your eyes.
- Do NOT leave the product in a damp or dusty place, a place where it will be exposed to oil smoke or steam or to direct sunlight, or near a heater. Fire or electrical shock may result.
- Do NOT leave the product in a place that becomes extremely hot, such as inside an automobile with all its windows tightly closed. Inside such an automobile, the temperature could reach as high as 100°C, causing the product to fail or catch fire.
- Do NOT place the product near any source of electromagnetism, such as a television receiver or speaker, which is a possible cause of failure or loss of valuable data. Furthermore, repairs could result in loss of stored information. Keep backup copies of any valuable data, such as by transferring your data to a personal computer.
- Do NOT place prerecorded tapes, cash cards, electromagnetic commuter passes, floppy disks or similar materials close to the speaker portion of this product. Valuable data stored on those media may be lost or become inaccessible.
- Check to see if recording or shooting is permitted where you are. Recording and shooting may be prohibited or restricted aboard aircraft, at lectures, concerts, exhibition halls, etc.

Tips on Safe Battery Handling

To prevent personal injury from electrolyte leakage, heating, ignition or explosion, always abide by these instructions.

WARNING

- Do NOT dispose of in fire, heat, or disassemble batteries.
- Do NOT short-circuit the positive  and negative  terminals of batteries.
- Do NOT recharge batteries.

CAUTION

- Insert batteries with the positive  and negative  terminals oriented correctly.
- Use batteries of a recommended type only.
- Do NOT mix used and new batteries and do NOT mix different types of batteries together.
- Remove batteries from the product immediately when they have been exhausted.
- Remove batteries from the product before leaving it out of service for prolonged period.

If Electrolyte Leaks

Wipe off the electrolyte thoroughly. If the electrolyte comes into contact with your skin or clothing, flush with plenty of water.

Introduction 5

Key Features	5
Check Components	5
PC Hardware/Software Requirements	7
About This Instruction Manual	7
View Online Help	7
Installing the Batteries	8
Setting the Time and Date	9
If the IC Recorder Malfunctions or the Display is Abnormal – How to reset	10
The HOLD Switch	11
Auto Power-off Feature	11

Recording/Playing Messages 12

Before Getting Started	12
Recording with the Built-in Microphone	15
Play	20
Erasing Messages	23
Editing	26
Recording with an External Microphone or Any Other Apparatus	29

Shooting Pictures 31

When Shooting	31
Shooting	32
Erasing Images	34
Attaching Voice Memos	36

Connecting the IC Recorder to a PC..... 38

Installing IC-DP200 Manager	38
Connecting the IC Recorder to a PC	40
Installing the USB Driver	42
Launching IC-DP200 Manager	46
Transferring Files Recorded or Shot with the IC Recorder to the PC (Upload)	50
Transferring Voice Files Transferred to the PC Back to the IC Recorder (Download)	50
Playing Voice Files Transferred on the PC	51
Viewing Thumbnails of Image Files	53
Viewing and Editing Image Files	54
Erasing Files	60

Miscellaneous 62

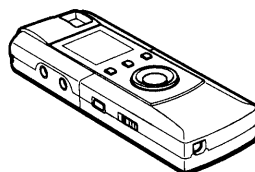
Care	62
Troubleshooting	62
Specifications	67
Component Names and Functions	68

Key Features

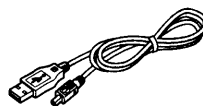
- IC voice recorder with a built-in 310,000-pixel digital camera
Stores as many as 200 images if sound is not used.
- Maximum 4 hours 20 minutes of recording in LP (Long Play) mode
- Folders A and B, to hold up to 100 messages each*
* The folders may hold fewer messages than stated above, depending on the duration of each recorded message and how many images are recorded.
- V-SENSOR feature to cut recording time
- Message-recording feature to attach voice information to recorded images.
- Ability to transfer recorded images and sound to a PC for manipulation

Check Components

The IC Recorder package should contain the following components:
IC Recorder IC-DP200

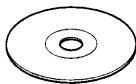


USB cable



Introduction

Installation CD-ROM



Carrying pouch

Hand strap

A complete set of printed documentation, including this instruction manual (this book)

Notes

- This manual may not be reproduced in whole or in part without the written consent of the manufacturer of the product.
- Information in this manual is subject to change without notice.
- Aiwa shall not be held liable for any incidental damage to recordings whatsoever that may result from failures, malfunctions, or defects in workmanship of this IC Recorder.
- Recordings stored in the IC Recorder may be lost when it is subjected to repair.

About Software Bundled with This IC Recorder

- Duplication of the software and the instruction manual that come with this product in whole or in part and lease on the software without approval of the copyright holders is prohibited by copyright law.
- Aiwa shall not be held responsible for any financial loss or loss of possible profits, any claim from third parties, and so forth arising from or in connection with the use of the software bundled with this product.

- If the software bundled with this product should fail because of defects in workmanship, it will be replaced. We will make no other warranties.
- The software bundled with this product works only with devices of the specified types. It may not run on all the PCs that meet the hardware/software requirements defined in this manual.
- Owing to a continuing program of improvement, specifications of the software bundled with this product are subject to change without notice.
- The operating characteristics of the IC Recorder are unpredictable if it is used with any software that is not bundled with it.

- IBM and PC/AT are registered trademarks of International Business Machines Corporation in the United States and/or other countries.
- Windows® is a registered trademark of Microsoft Corporation in the United States and/or other countries.
- MMX and Pentium® are registered trademarks of Intel Corporation.
- Sound Blaster 16 is a trademark or registered trademark of Creative Technology Ltd.
- Generally, other company names or product names are trademarks or registered trademarks of their respective owners.

In this manual, ™ or ® is not specifically shown.

PC Hardware/Software Requirements

Hardware and software prerequisites to installing and running the software bundled with the IC Recorder are listed below.

Hardware

- IBM PC/AT or compatible with a 200 MHz or faster MMX Pentium processor *¹
- 32 MB of RAM or more (64 MB or more recommended)
- 200 MB of hard disk space or more *²
- 4× or faster CD-ROM drive
- USB terminals available as standard, with at least one terminal unused *³
- SoundBlaster 16-compatible sound card
- Video card and display with 800 × 600 dots and 16-bit color or higher

*¹ The NEC PC98-NX Series and Macintosh PCs are not supported.

*² More hard disk space may be needed, depending on the sizes of sound and image files to be recorded.

*³ If multiple USB terminals are available, the kind of USB devices that are used concurrently with the IC Recorder may not allow it to operate. Successful operations of the IC Recorder would also be unpredictable if it is used in connection with a USB hub.

Software

Microsoft Windows 98/98SE/Me/2000 Professional

Successful operations of the IC Recorder on a PC running an upgrade from Windows 95 would be unpredictable.

About This Instruction Manual

This instruction manual provides information on using the IC Recorder IC-DP200, plus basic instructions on running the IC-DP200 Manager software that comes bundled with it. For more information about the functionality and usage of IC-DP200 Manager, view Online Help as well.

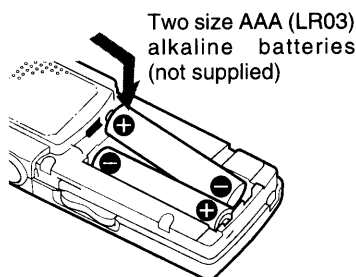
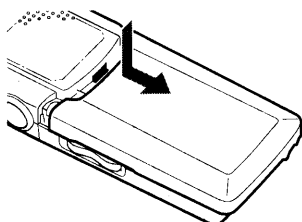
Note

Sound and image files that have been transferred to a PC may be referred to as “files” in this instruction manual.

View Online Help

To view Online Help, install IC-DP200 Manager (page 38). Then, click on **Start**, point to **Programs**, **AIWA**, and **IC-DP200**, and then click on **Help**.

Installing the Batteries



Load the batteries with the positive **+** and negative **-** terminals oriented correctly and close the cover.

Notes

- The Clock Setup screen will appear when you load batteries in the IC Recorder for the first time after purchasing or when it has been left for 3 minutes or longer without batteries installed. If this screen appears, set the clock by following step 3 and later in the “Setting the Time and Date” section of this manual.
- Manganese batteries cannot be used with this IC Recorder. Be sure to use alkaline batteries.
- It may happen that the display window is not displayed properly after the batteries are replaced. Reset the IC Recorder in such a case (page 10).
- Recorded sound and images will not be erased even when the batteries are replaced.

- Before recording any important sound data, you should replace the batteries with new ones to assure successful recording.

When To Replace Batteries

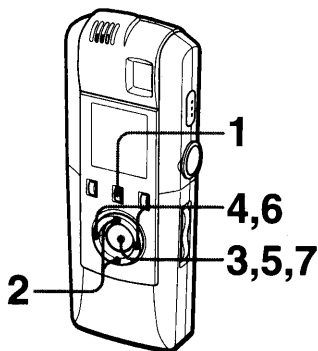
The battery indicator in the display window varies as shown below, according to the remaining charge of the batteries.

Remaining charge	Indicator
Full	
	↓
	↓
	↓
Empty	

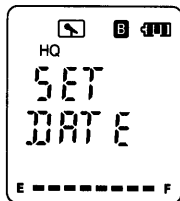
When the battery indicator has changed to , stop the IC Recorder and replace the batteries with new ones. Continued use of the IC Recorder would cause  and “LoBAT” to be displayed in the display window for a few moments, after which the IC Recorder will shut down. Replace both batteries.

Setting the Time and Date

The first thing you have to do with your IC Recorder is to set the time and date, after which each message will be recorded with its time and date of recording or shooting registered.

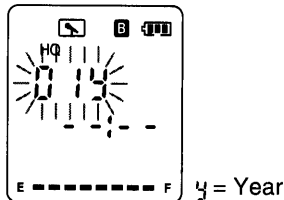


- 1 Hold the MENU/PAUSE button pressed for about 1 second with the IC Recorder stopped.
- 2 Press the ▲ or ▼ button to display the Date/Time Setup screen.



- 3 Press the ►/■ button.

- 4 Choose digits for the year by pressing the ◀◀ or ▶▶ button while the year indicator is flashing.

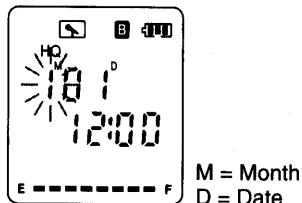


- 5 Press the ►/■ button to accept the year.

The month indicator will flash next.

- If you make a setting error, press the ▲ button to return to the previous page of the setup screen.
Press the ▼ button to skip the setup screen.
- To cancel a setup process in progress, hold the MENU/PAUSE button pressed for about 1 second.

- 6 Choose digits for the month by pressing the ◀◀ or ▶▶ button while the month indicator is flashing.



7 Press the ►/■ button to accept the month.

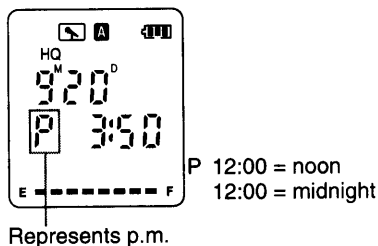
The date indicator will flash next.

Likewise, set date, hours, and minutes in that order.

When the minutes are set

The IC Recorder exits Setup mode automatically and returns to the normal screen display.

(Example: 3:50 p.m., September 20)



If the current time display appears on the display in the course of a setup process

Retry from step 1.

To set time precisely

If you have chosen digits for the minutes in step 7 above, press the ►/■ button at the tone.

Time indicator

This IC Recorder displays the time on a 12-hour basis, with the "P" sign appearing to designate afternoon.

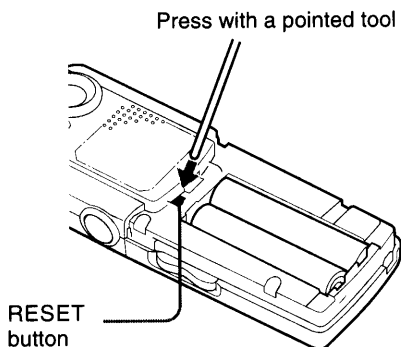
"P 12:00" indicates noon, and "12:00" without the P sign means midnight.

Note

"SET DATE" on the Date/Time Setup screen will appear automatically when you load batteries in the IC recorder for the first time after purchasing or when it has been left for 3 minutes or longer without batteries installed. If this screen appears, retry from step 3.

If the IC Recorder Malfunctions or the Display is Abnormal – How to reset

Open the battery compartment and press the RESET button with a pointed tool.

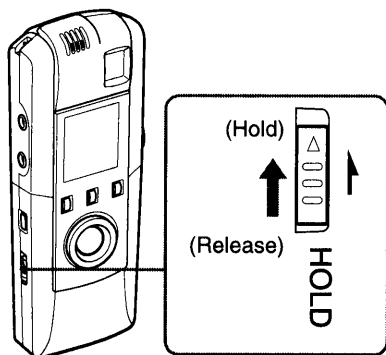


Note

Recorded sound and images will not be erased even when the IC Recorder is reset.

The HOLD Switch

Keep the HOLD switch slid to the arrow (hold position) when carrying the IC Recorder in your pocket or bag. This will prevent the recorder from being activated when a button is pressed accidentally.



If the HOLD switch is enabled

When you press a button, "HOLD" will flash in the display window 3 times. Before using the IC Recorder, release the HOLD switch.

Auto Power-off Feature

This IC Recorder does not have a power switch. If the product is left idle for 3 minutes while stopped in Voice mode or for 1 minute in Camera mode, it shuts off automatically to conserve battery charge and enters standby state with the display window cleared.

To clear standby state

Hold the ►/■, MENU/PAUSE, REC/STOP, INDEX, DISPLAY, or SHUTTER button pressed for about 1 second.

From this point on, the state of the IC Recorder, in which it is off (with the display window cleared), is referred to as standby state in this manual.

Recording/Playing Messages

Before Getting Started

Convenient functions and operations that you should know before getting started with the IC Recorder are explained below. For the names and functions of the components and images appearing in the display window, see the "Component Names and Functions" section (page 68) of this manual.

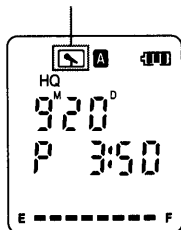
Voice mode and Camera mode

This IC Recorder supports two modes of operation: Voice mode, in which voice can be recorded and/or played, and Camera mode, in which pictures can be taken using the built-in digital camera.

- **To start the IC Recorder in Voice mode from standby state**

Press the ►/■, MENU/PAUSE, REC/STOP, INDEX, or DISPLAY button.

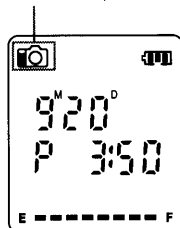
Voice mode indication (MIC icon)



- **To start the IC Recorder in Camera mode from standby state**

Hold the SHUTTER button pressed for about 1 second.

Camera mode indication
(Camera icon)



- **To switch from Voice mode to Camera mode**

Hold the SHUTTER button pressed for 1 second or longer with the IC Recorder stopped.

- **To switch from Camera mode to Voice mode**

Hold the SHUTTER button pressed for 2 seconds or longer with the IC Recorder stopped.

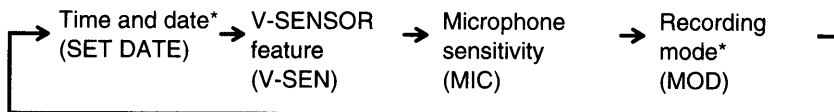
Menu mode

The Menu screen allows you to set the time and date, microphone sensitivity, the V-SENSOR feature, and either of the two recording modes.

To enter Menu mode

Hold the MENU/PAUSE button pressed for about 1 second with the IC Recorder in standby state, stopped, or recording. Press the ▲ or ▼ button to choose the desired function.

In Voice mode



In Camera mode



* The Date/Time, Recording Mode, and Shutter Tone Setup screens are displayed only while the IC Recorder is stopped.

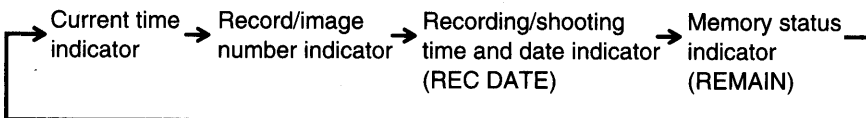
To exit Menu mode

Press the MENU/PAUSE button.

For setup procedures by function, see the “Setting the Time and Date” (page 9), “Changing Recording modes” (page 17), “Changing Microphone Sensitivity” (page 17), and “Recording with V-SENSOR” (page 18) sections of this manual.

Screen Transitions

Each time you press the DISPLAY button, screen transitions occur, in the following sequence:

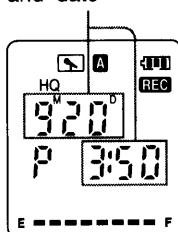


Recording/Playing Messages

Typical Voice Mode Displays (Recording)

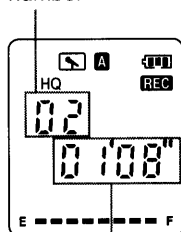
Current time indicator

Current time and date



Record number indicator

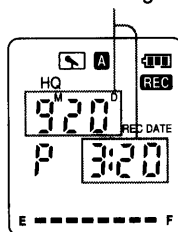
Current record number ¹



Elapsed time

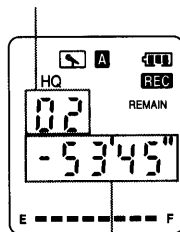
Recording date/time indicator

Time ² and date at which recording started



Memory status indicator

Current record number



Remaining recording time ³

¹ During playback, the record number of the message that is currently playing is displayed.

² The year indicator is displayed for seconds initially.

³ During playback, the remaining time of the message that is currently playing is displayed.

Typical Camera Mode Displays (Stopped)

Note

Images with a voice memo attached to them will appear differently in part.

Current time indicator

Current time and date

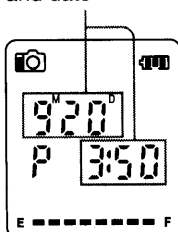
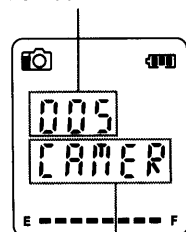


Image number indicator

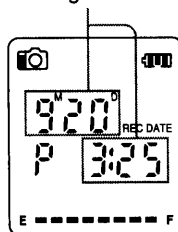
Last image number ¹



While a voice memo is playing, the elapsed time of playback is displayed.

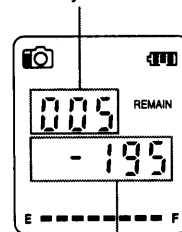
Shooting time/date indicator

Time ² and date at which the image was shot



Memory status indicator

Number of images already shot



Remaining recording capacity ³

¹ The number of the image of the current choosing is displayed for seconds initially.

² The Year indicator is displayed for seconds initially.

³ During voice memo playback, the remaining time of the message that is currently playing is displayed.

Changing Folders

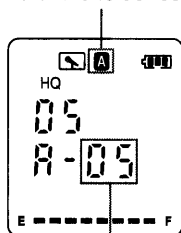
In Voice mode, two folders (A and B) can be used selectively.

Each folder can hold up to 100 messages as voice files.

To change folders

Press the **▲** button with the IC Recorder stopped.

Name of the folder selected

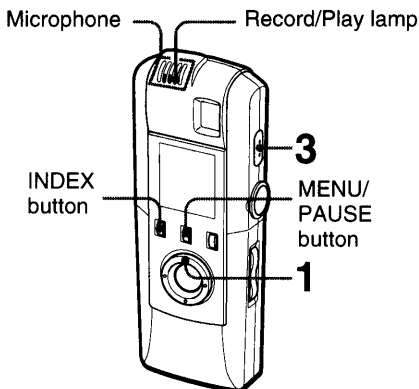


Total number of messages recorded in the selected folder

Note

Image and voice memo information recorded in Camera mode is saved to a dedicated Camera mode folder.

Recording with the Built-in Microphone



- 1 Press the **▲** button to choose the folder to record in.**
- 2 Aim the microphone at the sound source.**
- 3 Press the REC/STOP button.**

The Record/Play lamp lights in red and recording starts. The **REC** indicator in the display window turns on.

Each message that the IC Recorder records is assigned a record number, with an index being recorded in the leading part of the message. Record numbers are assigned in sequence in each folder.

Tip

Press the DISPLAY button to switch to the record number indicator screen to check the record number and the elapsed time (page 14).

Notes

- Sound is recorded in monaural.
- Sound output from the built-in speaker is suppressed while the IC recorder is recording. To listen to sound while it is being recorded, connect commercially available headphones or earphones to the headphone jack.
- Volume adjustment is disabled during recording when headphones are connected.

Basic Operations

Stop recording	Press the REC/STOP button. To resume recording in the same folder, start from step 3.
Pause recording	Press the MENU/PAUSE button. The Record/Play lamp stars flashing in orange. To resume recording, press the MENU/PAUSE button or the REC/STOP button again.
Play recorded sound immediately	Press the ►/■ button where you want the recording stopped. The Record/Play lamp will light in green and the message just recorded will start playing from the beginning. Playback will also begin if you press the REC/STOP button to stop recording and then press the ►/■ button.

Changing Recording modes

The recording mode can be selected between HQ and LP.

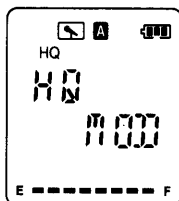
HQ (high-quality recording):

Up to 60 minutes of recording

LP (Long-play recording):

Up to 4 hours 20 minutes of recording

- 1 Hold the **MENU/PAUSE** button pressed for about 1 second with the IC Recorder stopped.
- 2 Press the **▲** or **▼** button to display the Recording Mode Setup screen.

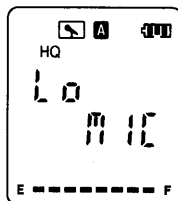


- 3 Press the **▶/■** button.
- 4 While the recording mode indicator (HQ or LP) is flashing, press the **◀◀** or **▶▶** button to select the desired recording mode.
- 5 Press the **▶/■** button to finalize your choice.
- 6 Press the **MENU/PAUSE** button to exit Menu mode.

Changing Microphone Sensitivity

The microphone sensitivity can be selected between HI (high sensitivity) and Lo (standard sensitivity).

- 1 Hold the **MENU/PAUSE** button pressed for about 1 second with the IC Recorder stopped.
- 2 Press the **▲** or **▼** button to display the Microphone Sensitivity Setup screen.

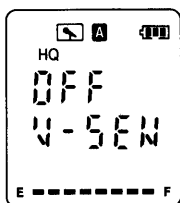


- 3 Press the **▶/■** button.
- 4 While the microphone sensitivity indicator (HI or Lo) is flashing, press the **◀◀** or **▶▶** button to choose "HI" or "Lo".
- 5 Press the **▶/■** button to confirm the choice.
- 6 Press the **MENU/PAUSE** button to exit Menu mode.

Recording with V-SENSOR

A certain level of voice input or higher to the IC Recorder automatically starts recording and automatically stops recording when the voice input falls. Use this feature to record meetings where silence occurs intermittently to cut the recording time.

- 1 Hold the MENU/PAUSE button pressed for about 1 second with the IC Recorder stopped.**
- 2 Press the ▲ or ▼ button to display the V-SEN (V-SENSOR) Setup screen.**



- 3 Press the ►/■ button.**
- 4 While the V-SENSOR mode indicator (ON or OFF) is flashing, press the ◀◀ or ▶▶ button to choose between "ON" or "OFF".**
The V-SENSOR indicator will turn on.
- 5 Press the ►/■ button to finalize your choice.**
- 6 Press the MENU/PAUSE button to exit Menu mode.**
Press the REC/STOP button to start recording with the V-SENSOR feature enabled.

If the V-SENSOR feature is not used
Select "OFF" in step 4.

Notes

- When the IC Recorder resumes recording on detecting voice while it has been in the recording standby state, the leading part of the voice may break slightly.
- To avoid breaks in sound recording, important messages should be recorded with the V-SENSOR feature disabled.
- If hands or any other part of your body comes into contact with the IC Recorder while it is recording, the recording may be superimposed with noises.

Other Functions Useful for Recording

Indexing in the Middle of Recording

Indexing in the middle of recording facilitates the work of locating scenes of interest at a later time.

To index

Press the INDEX button while recording is in progress or paused.

The record number will be incremented starting at the point at which the button was pressed.

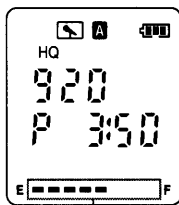
Note

Indexing will cause recorded sound to break slightly.

Viewing the Remaining Recording Time

Time

A look at the memory status bar in the display window will show you roughly how much time is left for recording. As more sound is recorded, the memory status bar is erased segment by segment from right to left.



Memory status bar

To get a more precise measure of the remaining recording time

Press the DISPLAY button while recording is in progress or stopped to switch to the memory status indicator screen (page 14).

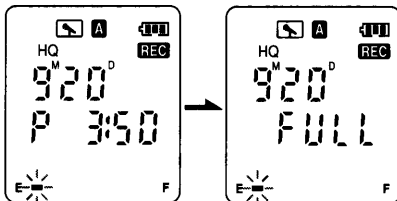
Note

The remaining recording time that is displayed on the Memory status indicator screen is the period of time that is available for continuous recording. The remaining recording time varies depending on which recording mode (HQ/LP) you use, and declines as more record numbers are created by repeating short-time recordings.

When the Remaining Recording Time Declines during Recording

The last segment of the memory status bar will flash.

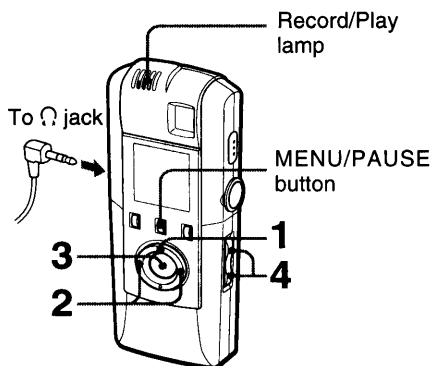
Further recording will turn on "FULL" when no more recording time is available and then stop recording with "STOP" being displayed.



Note

Once "FULL" appears in the display window, further recording is not possible. To continue recording, erase messages that are no longer needed (page 23).

Play



- 1 Press the **▲** button with the IC Recorder stopped and select the folder to play.
- 2 Press the **◀◀** or **▶▶** button to select the message to play.
- 3 Press the **▶/■** button.
The Record/Play lamp will light in green and the selected message will start playing from the beginning.

Tip

Press the DISPLAY button to switch to the record number indicator screen to check the record number and the elapsed time (page 14).

Note

If you select an empty folder or an image without a voice memo being recorded and then press the **▶/■** button, "No INFO" is displayed in the display window.

- 4 Press the **+** or **-** side of the VOL button to adjust the sound volume.

Press the **+** side to turn up the volume or the **-** side to turn down the volume. The sound volume is adjustable from VOL00 to VOL20.

Basic Operations

Stop playing	Press the ▶/■ button.
Pause Playing	Press the MENU/PAUSE button. The Record/Play lamp starts flashing in orange. To resume playback, press the MENU/PAUSE button again or press the ▶/■ button.

Listening with Headphones

Connect commercially available headphones with a miniplug (3.5-mm in diameter) to the Ω jack. Sound output from the built-in speaker will be suppressed.

Note

Even if you connect stereo headphones to the headphone jack, only monaural sound will play. The same sound will be heard from both earphones.

Cueing Messages

Press the ◀◀ or ▶▶ button with the IC Recorder playing or stopped.

Hold the ◀◀ or ▶▶ button pressed with the IC Recorder stopped to cue continuously.

Return to the beginning of the current message. Press the ◀◀ button.

Return to the beginning of the previous message Press the ◀◀ button repeatedly.
The IC Recorder returns to the beginning of the previous message each time you press the ◀◀ button.

Advance to the beginning of the next message Press the ▶▶ button repeatedly.
The IC Recorder advances to the beginning of the next message each time you press the ▶▶ button.

Fast-Forwarding/Rewinding

Fast-forward Hold the ▶▶ button pressed with the IC Recorder playing.

Rewind Hold the ◀◀ button pressed with the IC Recorder playing.

Playback begins when you release the buttons.

Tip

No sound is generated while the IC Recorder is fast-forwarding or rewinding. Release the buttons at the point of interest by observing the elapsed time indicator in the display window.

Playing Only the Lead of each Message (Scan Playback)

The IC Recorder plays only the first 5 seconds of each message continuously and stops upon completing scan playback of all the messages.

1 Hold the ▶/■ button pressed for about 1 second with the IC Recorder playing or stopped.

"SCAN" lights in the display window, with the record number flashing. Scan playback begins with the currently selected message.

2 Press the ▶/■ button at the message of interest.

The IC Recorder starts playing that message from the beginning in the normal fashion.

Play an Interval of a Message Repeatedly (A-B Repeat Playback)

You can listen to that interval of a message falling between two specified points (A-B) repeatedly.

1 While the IC Recorder is playing a message, press the ▲ button where you want the message to start playing repeatedly (point A). Then A ↔ will appear in the display window.

2 Press the ▲ button at the loopback point of the repeat (point B).

Then A ↔ B will appear in the display window, and the IC Recorder will start playing that interval of the message falling between points A and B repeatedly.

Tip

Press the ▲ button during repeat playback, and that point will be set as a new starting point (point A). Press the ▲ button again and that point will be set as a new loopback point (point B), so that playback will be repeated between these new two points. Repeat this procedure if you wish to vary the interval of repeat playback.

To return to normal playback

Press the ►/■ button.

Notes

- If only point A is specified, and point B is at the default settling, the IC Recorder will play the message from point A to the end repeatedly, with A ↔ E appearing in the display window.
- Points A and B must be located within the same message.

Tip

Hold the ►/■ button pressed for about 1 second during repeat playback to start scan playback (page 21).

Playing a Single Message Repeatedly (Single Message Repeat Playback)

1 While the IC Recorder is playing a message, hold the ▲ button pressed for about 1 second.

The IC Recorder will play that message repeatedly, with ◀ 1 ▶ appearing in the display window.

To return to normal playback

Press the ►/■ button.

Tip

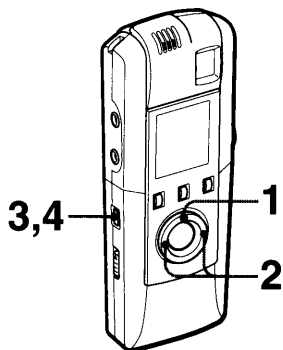
Hold the ►/■ button pressed for about 1 second during repeat playback to start scan playback (page 21).

Erasing Messages

Note

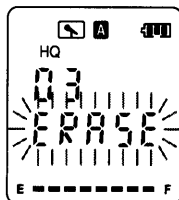
Messages once erased cannot be restored. Safeguard important messages from accidental erasure by attaching a priority mark (★) to them (page 25).

Erasing One Message At a Time



- 1 With the IC Recorder stopped, press the **▲** button and select a folder.
- 2 Press the **◀◀** or **▶▶** button to select a message to erase.
- 3 Hold the **ERASE** button pressed for about 3 seconds.

With "ERASE" flashing in the display window, the IC Recorder plays the first and last 5 seconds of the message 5 times repeatedly.



- 4 Press the **ERASE** button again during repeat playback.

The message is erased and the record numbers of the succeeding messages are decremented by one each.

When message 03 is erased

Before erasing	01	02	03	04	05	06
After erasing	01	02	03	04	05	

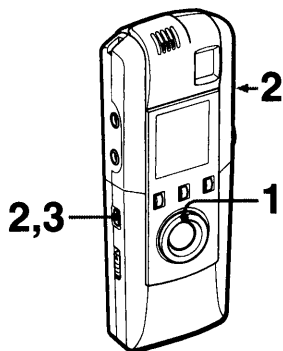
To cancel the procedure

Press any button other than the **ERASE** button while the playback is repeating. The erasing procedure will be canceled and the playback stops. The erasing procedure will also be canceled and the playback stops if you do not press the **ERASE** button before the playback ends.

Note

If you attempt to erase a message bearing the priority mark (★), "LOCK" will appear in the display window and the message is not erased. Clear the priority mark before erasing the message.

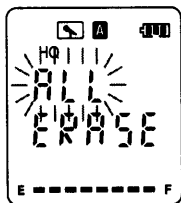
Erasing All Messages in a Folder At Once



1 With the IC Recorder stopped, press the **▲** button and select a folder.

2 While holding the **ERASE** button pressed, hold the **REC/STOP** button pressed for 3 seconds or longer.

"ALL ERASE" will appear in the display window, with "ALL" flashing for 10 seconds.



3 Press the **ERASE** button while "ALL" is flashing.

All the messages in the selected folder are erased at once.

To cancel the procedure

Press any button other than the **ERASE** button while "ALL" is flashing.

The erasing procedure will be canceled and the playback stops.

The erasing procedure will also be canceled if you do not press the **ERASE** button before "ALL ERASE" disappears.

Note

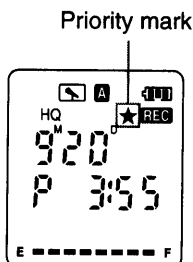
Messages bearing the priority mark (★) are protected from erasure. Clear the priority mark before erasing them.

Attaching the Priority Mark

A priority mark (★) attached to a message protects the message from being erased accidentally. Safeguard valuable messages against accidental erasure by attaching this priority mark to them.

Attaching a Priority Mark While Recording

- 1 Press the ▼/PRIORITY button while the IC Recorder is recording. The priority mark (★) will appear in the display window.



To clear the priority mark

Hold the ▼/PRIORITY button pressed for 1 second or longer.

Attaching a Priority Mark to a Prerecorded Message

- 1 With the IC Recorder stopped, press the ▲ button and select a folder.
- 2 Press the ◀◀ or ▶▶ button to select a message to which to attach the priority mark.
- 3 Press the ▶/■ button to play the message for confirmation.

4 Press the ▼/PRIORITY button.

The priority mark (★) will appear in the display window.

To clear the priority mark

Hold the ▼/PRIORITY button pressed for 1 second or longer.

Erasing a Recorded Message Bearing a Priority Mark

Hold the ▼/PRIORITY button pressed for 1 second or longer to clear the mark.

The priority mark (★) disappears from the display window, and the prerecorded message may be erased.

Editing

This IC Recorder allows you to divide a prerecorded message into two parts by assigning an additional index, join these two parts together to reconstruct one message by deleting the index, and move message from one folder to the other.

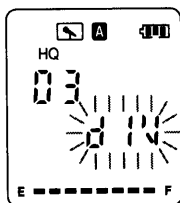
Dividing a Message (Adding an Index)

You can divide a prerecorded message by assigning an additional index to it.

- 1 Play the message you wish to divide.
- 2 Press the INDEX button where you want the message you wish divided.

You may pause the playback and then press the INDEX button.

"diV" will flash ten times in the display window, after which the IC Recorder enters playback pause state.



- 3 While "diV" is flashing, press the INDEX button again.

Then "diV" will light, and the memory status bar will flash.

An additional index is added at the position in the message where you want it divided. The message is divided into two messages across the point at which the index has been added, with consecutive record numbers.

When message 03 is divided

A prerecorded message is divided at the position at which the index has been added, with the message before that position being assigned number 03 and the message after being assigned number 04. The record numbers of the succeeding messages are each incremented by one.

Before dividing	01	02	03	04	05	
			An index is added			
After dividing			03	04	05	06
	01	02	03	04	05	06

When dividing is completed

The record number of the additional message created is displayed. "STOP" is displayed, and playback stops.

To cancel the procedure

Press the ►/■ button while "diV" is flashing.

Notes

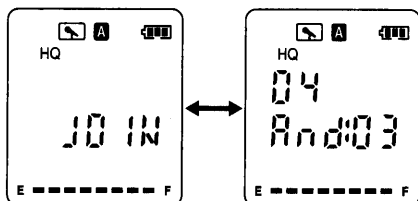
- You cannot divide a message anywhere within its first 3 seconds.
- The remaining recording time may not allow an index to be assigned to a message, with "CAN Not" appearing in the display window.
- When a message bearing the priority mark is divided, the priority mark (★) is assigned to both resulting messages.

Joining Messages (Deleting the Index)

You can join two messages with consecutive record numbers to reconstruct one message.

- 1 Of the two messages to be joined, select the one having the higher record number, while the IC Recorder is stopped.
- 2 Hold the ERASE button pressed for about 1 second while holding the INDEX button pressed. "JOIN" and the record numbers of the two messages to be joined will flash alternately for 10 seconds.

When messages 03 and 04 are joined



- 3 Press the INDEX button again while the display window is flashing.

The memory status bar will flash. The two messages are joined to reconstruct one message with the intervening index being deleted. The new message is assigned the lower of two original record numbers.

When messages 03 and 04 are joined

The message that is reconstructed is numbered 03. The record numbers of the succeeding messages are decremented by one each.

Before joining	01	02	03	04	05	06
			The index is deleted			
After joining	01	02	03	04	05	

When joining is completed

The record number of the reconstructed message is displayed.

To cancel the procedure

Press the ►/■ button while the displays in step 2 are flashing.

Tip

The join function allows you to delete only an unwanted part of a message in combination with the divide and delete functions. Extract the part of the message that you want deleted as a new message by adding an index to the beginning and to end of that part, then delete that message. Then, join the two resulting messages (i.e. two parts of the original message left after deleting the extracted part) together.

Recording/Playing Messages

Notes

- You cannot join two messages with nonconsecutive record numbers.
- You cannot join two messages that have been recorded in different recording modes (HQ/LP).
- The remaining recording time may not allow two messages to be joined, with “CAN Not” appearing in the display window.
- When two messages are joined with a priority mark (★) attached to one or both of the original messages, the mark is cleared.

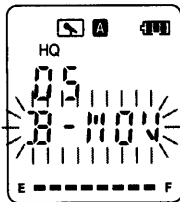
Moving Messages

You can move a prerecorded message from one folder to the other (A/B).

- 1 Select a message to move, play it for confirmation and then stop.**
- 2 Hold the INDEX button pressed for about 1 second.**

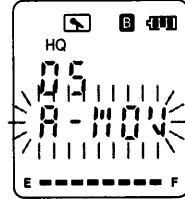
To move a message from folder A to folder B:

“B-MOV” will flash for 10 seconds in the display window.



To move a message from folder B to folder A:

“A-MOV” will flash for 10 seconds in the display window.

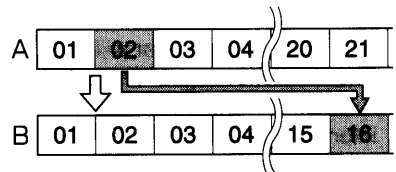


- 3 Press the INDEX button again while “B-MOV” or “A-MOV” is flashing.**

The message will be moved to the other folder.

The message will be stored as the last message in the folder and assigned the last record number. For example, if the last message recorded in the destination folder has a record number of 15, the message just moved into that folder is assigned the record number 16 and is deleted from the source folder.

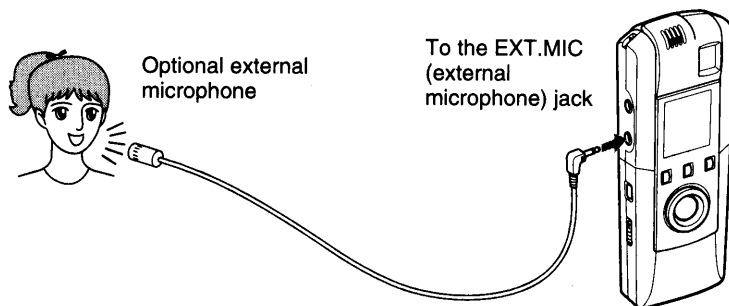
When a message is moved from folder A to folder B



Recording with an External Microphone or Any Other Apparatus

Recording with an External Microphone

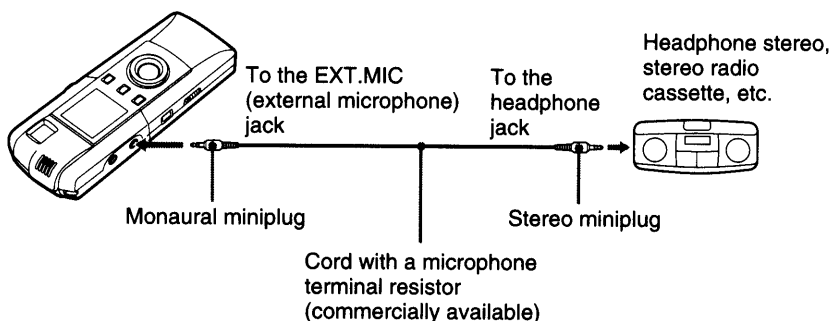
Connect a commercially available monaural microphone with a miniplug (3.5-mm in diameter) to the MIC jack of the IC Recorder. This will allow sound to be recorded with greater clarity. When a plug-in power-ready microphone is used, it is powered from the IC Recorder.



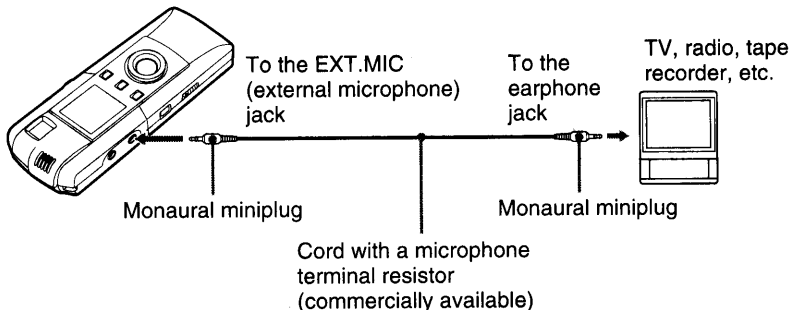
Notes

- When recording with an external microphone, keep it away from the IC Recorder and headphones. Having a microphone too close to the IC Recorder or headphones will cause feedback.
- When an external microphone is connected to the IC Recorder, recording with the built-in microphone is disabled.

Recording with an Apparatus Supporting a Headphone Jack (stereo miniplug)



Recording with an Apparatus Supporting an Earphone Jack (monaural miniplug)



Connecting Cords

- Different types of connecting cords may have to be used depending on the kind of apparatus external that is connected to the IC Recorder. Before connecting any external apparatus to the IC Recorder, identify the kind of connecting cord required by referring to the instruction manual supplied with that apparatus.
- Do NOT use a connecting cord of any kind that is not recommended. Use of a nonstandard connecting cord can be a source of distorted sound recording or failure.

If Recorded Sound Is Distorted

Excessive input from an external apparatus connected to the IC Recorder could cause the recorded sound to be distorted. Set the external apparatus to an appropriate output level.

Shooting Pictures

With the built-in digital camera in the IC Recorder, you can easily take snapshots. You can attach a voice memo to each picture you take, thereby making a record of the date and place of photography, the name of a person in the picture.

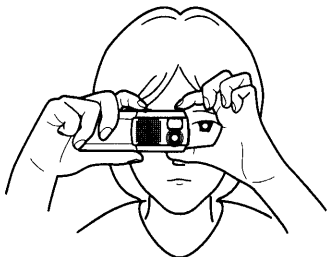
Pictures taken are saved in internal memory in the IC Recorder. These pictures cannot be viewed with this IC Recorder. To view them, transfer the images to a PC using the included IC-DP200 Manager software.

When Shooting

Hold the IC Recorder firmly with both hands to keep it steady.

Hold the IC Recorder vertically or horizontally, as appropriate for the composition of the shot.

Example of holding the IC Recorder horizontally



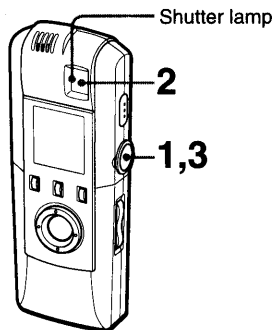
Example of holding the IC Recorder vertically



Notes

- Be careful not to cover the lens with your fingers, the strap, etc.
- Do NOT scratch or smear the viewfinder or lens.
- Pictures that have been taken with the IC Recorder held vertically will be displayed rotated 90 degrees when transferred to a PC.

Shooting



- 1 Hold the **SHUTTER** button pressed for about 1 second with the IC Recorder in standby state or stopped in Voice mode.

The Shutter lamp in the viewfinder will light in red, with  appearing in the display window, then light in green.

- 2 Looking at the subject through the viewfinder, establish the composition.

- 3 Press the **SHUTTER** button briefly.

A short beep will sound. The Shutter lamp will light in red, with "SAVE" appearing in the display window.



- 4 Making sure that the Shutter lamp is lit in green, take the next picture.

Checking How Many More Pictures Can Be Taken

A look at the memory status bar in the display window will show you roughly how many more pictures you can take. As more images are recorded, the memory status bar is erased segment by segment from right to left. The IC Recorder can store up to 200 pictures.



Memory status bar

To get a more precise measure of the remaining recording capacity

Press the **DISPLAY** button to switch to the memory status indicator screen (page 14).

Note

The remaining recording capacity that is displayed on the Memory Status Indicator screen indicates the number of additional pictures that can be taken if all the available memory is devoted to their shooting. The remaining recording capacity will decline as new sound is recorded or voice memos are attached to images. Use this estimate of remaining recording capacity only as a reference.

If Pictures Cannot Be Taken, Short Beeps Are Sounded, Even When the SHUTTER Button Is Pressed

The IC Recorder is not ready, or otherwise is not prepared, for taking pictures. Make sure that the Shutter lamp is lit in green before taking pictures.

You will also hear short beeps when you press the SHUTTER button after having taken 200 pictures. In this case, free up some memory by erasing pictures that you no longer need to have stored in the IC Recorder.

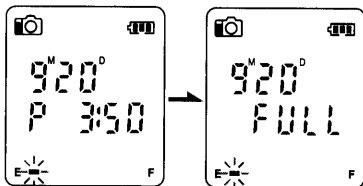
To Suppress the Shutter Tone That Sounds When You Press the SHUTTER Button

- 1 Hold the MENU/PAUSE button pressed for about 1 second with the IC Recorder stopped in Camera mode.**
- 2 Press the ▲ or ▼ button to display the Shutter Tone Setup screen (BEEP).**
- 3 Press the ►/■ button.**
- 4 While “ON” or “OFF” is flashing, press the ◀◀ or ▶▶ button to select “OFF BEEP.”**
- 5 Press the ►/■ button.**
- 6 Press the MENU/PAUSE button.**
To again enable the shutter tone, select “ON BEEP” in Step 4.

As the Remaining Recording Capacity Diminishes

The last segment of the memory status bar will flash.

Any further attempt to shoot will cause “FULL” to be displayed if no more memory is available.



Note

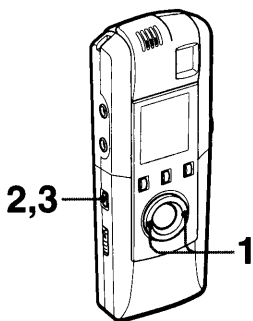
Once “FULL” appears in the display window, further shooting is not possible. To continue shooting, erase pictures that are no longer needed (page 34).

Erasing Images

Note

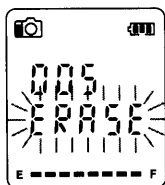
Images once erased cannot be restored. Safeguard important images from accidental erasure by attaching a priority mark (★) to them (page 36).

Erasing One Image At a Time



- 1 Press the **⏮** or **⏭** button to select an image to erase.
- 2 Hold the **ERASE** button pressed for about 3 seconds.

"ERASE" will flash in the display window for about 10 seconds.



- 3 Press the **ERASE** button again while "ERASE" is flashing.

The image is erased, and the numbers of the succeeding images are decremented by one each.

When image 003 is erased

Before erasing	001	002	003	004	005	006
After erasing	001	002	003	004	005	

To cancel the procedure

Press any button other than the **ERASE** button while "ERASE" is flashing.

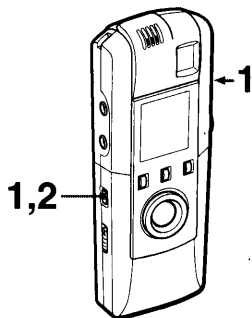
The erasing procedure will be canceled and the IC Recorder will return to the stopped state.

The erasing procedure will also be canceled, and the IC Recorder will return to the stopped state, if you do not press the **ERASE** button before "ERASE" disappears.

Note

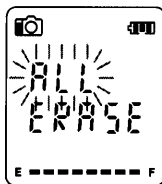
Images bearing the priority mark (★) cannot be erased. Clear the priority mark before erasing any such image.

Erasing All Images At Once



- 1 While holding the ERASE button pressed, hold the REC/STOP button pressed for about 3 seconds.

"ALL ERASE" will appear in the display window, with "ALL" flashing for 10 seconds.



- 2 Press the ERASE button while "ALL" is flashing.

All the images will be erased at once.

To cancel the procedure

Press any button other than the ERASE button while "ALL" is flashing.

The erasing procedure will be canceled, and the IC Recorder will return to the stopped state.

The erasing procedure will also be canceled, and the IC Recorder will return to the stopped state, if you do not press the ERASE button before "ALL ERASE" disappears.

Note

Images bearing the priority mark (★) are protected from erasure. Clear the priority mark before erasing any such image.

Attaching the Priority Mark

A priority mark (★) attached to an image protects the image from being erased accidentally. Safeguard valuable images against accidental erasure by attaching the priority mark to them.

1 With the IC Recorder stopped, press the I◀◀ or ▶▶I button to select an image to which to attach the priority mark.

2 Press the ▼/PRIORITY button.

The priority mark (★) will appear in the display window.

To clear the priority mark

Hold the ▼/PRIORITY button pressed for 1 second or longer.

Tip

Pictures taken cannot be viewed with this IC Recorder. When you have taken any valuable picture, you should attach a priority mark to it or leave a voice memo as a remembrance of the picture.

Erasing a Recorded Image Bearing the Priority Mark

Hold the ▼/PRIORITY button pressed for 1 second or longer to cancel the mark.

The priority mark (★) disappears in the display window, and the prerecorded image may be erased.

Attaching Voice Memos

You can attach a voice memo to each picture taken to keep a record of the date and place of photography, the name of the person in the picture, etc.

1 Press the I◀◀ or ▶▶I button to select an image to which to attach a voice memo.

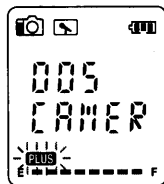
2 Press the REC/STOP button to record sound.

Recording begins with the [RECORD] mark and the [REC] mark turning on. The Record/Play lamp will light in red.

3 Press the REC/STOP button a second time where you want the recording stopped.

When you press the ▶/■ button, the Record/Play lamp will light in green, and the IC Recorder starts playing the voice memo from the beginning.

When a voice memo is attached to an image, the [PLUS] mark flashes in the display window.



Playing a Voice Memo

1 Press the ◀◀ or ▶▶ button to select an image for which to play a voice memo.

2 Press the ▶/■ button.

You can cue, fast-forward and rewind, and repeat-play voice memos in the same way as with regular messages.

Notes

- Voice memos are recorded in LP mode.
- The V-SENSOR feature can be enabled even while a voice memo is being recorded.
- When an image with a voice memo attachment is transferred to a PC, it is saved as a bitmapped file, with the voice memo being recorded as an audio file with the .cvs extension.

Appending a New Voice Memo to a Prerecorded Voice Memo

You can append a new voice memo to a prerecorded voice memo.

1 Press the ◀◀ or ▶▶ button to select an image to which to append a voice memo.

2 Press the ▶/■ button to play the prerecorded voice memo.

3 Hold the REC/STOP button pressed for about 1 second.

The **REC** mark is displayed, and recording starts after the prerecorded voice memo. "Add-R" will be displayed for a few seconds in the display window.

4 Press the REC/STOP button a second time where you want the recording stopped.

When you press the ▶/■ button, the Record/Play lamp will light in green and the IC Recorder starts playing the voice memo from the beginning.

Connecting the IC Recorder to a PC

The IC-DP200 Manager software included with the IC Recorder allows you to transfer the messages and images recorded with the unit to a PC for storage. It works in conjunction with included utilities to play stored messages, display and edit images, and compose e-mail with message or image attachments.

Installing IC-DP200 Manager

Before Installing

- Do NOT connect the IC Recorder to the PC yet.
- Close any other open applications.
- If you are using a PC running Windows 2000 Professional, log in with a user account having an administrator's authority.

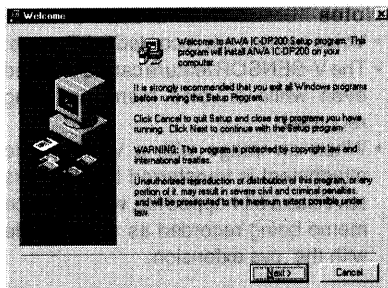
1 Load the included installation CD-ROM into the CD-ROM drive of your PC.

2 Double-click on  My Computer on the Desktop.

3 Double-click on the icon of the appropriate CD-ROM drive.

4 Double-click on .

The setup program launches, displaying the **Welcome** screen.



5 Click on Next.

The **Choose Destination Location** screen is displayed.

6 To install the program to the default folder, click on Next.

To install the program to another folder, click on **Browse**. Then, select the desired folder in the **Select Destination Directory** dialog box, then click on **OK**. Back on the **Choose Destination Location** screen, click on **Next**.

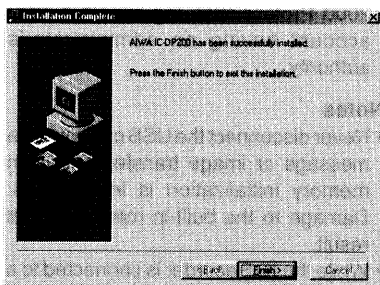
7 Click on Next on the Select Program Manager Group screen.

Click on **Back** to return to the previous screen if you wish to change some settings.

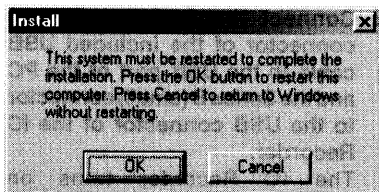
8 Click on Next on the Start Installation screen.

Copying of the files needed for installation begins.

9 Click on Finish on the Installation Complete screen.



10 Click on OK on the dialog box that prompts you to restart the computer.



The system restarts automatically, and the  icon is created on the Desktop. If you wish to wait until later to restart the system, click on **Cancel**.

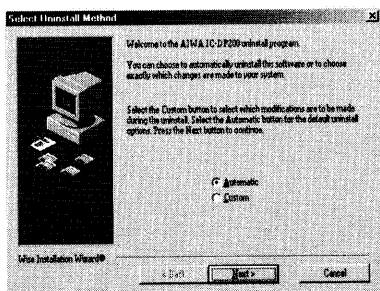
Note

If you click on **Cancel**, you will have to restart the system before launching IC-DP200 Manager. IC-DP200 Manager may operate abnormally if launched without first restarting the system.

Uninstalling IC-DP200 Manager

- 1 Click on **Start** on the Desktop, point to **Programs, AIWA, and IC-DP200**, and then click on **Uninstall**.

The **Select Uninstall Method** screen is displayed.



- 2 Select **"Automatic"** then click on **Next**.
- 3 Click on **Finish** on the **Perform Uninstall** screen.
The software is uninstalled.
- 4 If a dialog box prompting you to restart the computer is displayed, click on **OK**.

Connecting the IC Recorder to a PC

Connect the IC Recorder to a PC using the included USB cable.

Before performing file transfer via the USB cable

- The USB driver is installed automatically once the IC Recorder is connected to a PC for the first time.
- If you are using a PC running Windows 2000 Professional, log in with a user account having an administrator's authority.

Notes

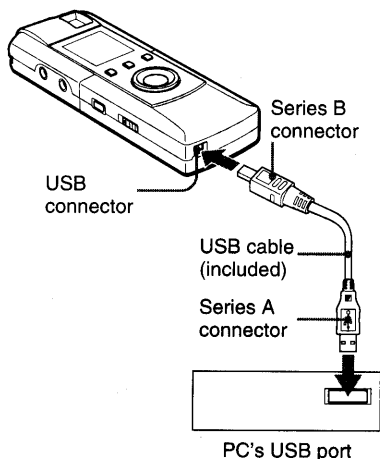
- Never disconnect the USB cable while a message or image transfer or built-in memory initialization is in progress. Damage to the built-in memory might result.
- While the IC Recorder is connected to a PC, never turn off the PC. Damage to the IC Recorder or data stored in it might result.

1 Start the PC.

- 2 Connect the **Series A (large)** connector of the included USB cable to the USB port of the PC and the **Series B (small)** connector to the USB connector of the IC Recorder.

The IC Recorder turns on automatically, with "PC LINK" appearing in the display window.

- 3 When the IC Recorder is connected to a PC for the first time, it is detected as new hardware and the USB driver is installed automatically.



Notes

- If the **Add New Hardware Wizard (Found New Hardware Wizard** for Windows 2000) is displayed, install the USB driver as instructed in the "Installing the USB Driver" section (page 42) of this manual.
- An IC Recorder connected to a PC via a USB cable draws power from the PC.

Disconnecting the IC Recorder from the PC

Windows 98/98SE/Me

- 1 Exit IC-DP200 Manager (page 46).
- 2 Disconnect the USB cable from the IC Recorder first, then from the PC.

Windows 2000 Professional

- 1 Exit IC-DP200 Manager (page 46).
- 2 Click on  (Unplug or Eject Hardware) in the task tray on the Desktop.
- 3 Click on "Stop USB Flash Memory Controller Driver: Win98 (01/04/28)" on the menu displayed.
- 4 When the **Safe To Remove Hardware** message box is displayed, click **OK**, and disconnect the USB cable from the IC Recorder first, then from the PC.

Note

The PC cannot be set in standby or suspended state as long as IC-DP200 Manager is active. Exit IC-DP200 Manager to set the PC into standby or suspended state.

Installing the USB Driver

The USB driver is installed automatically once the IC Recorder is connected to a PC for the first time.

If some of the files required to install the USB driver have not been copied during IC-DP200 Manager software installation, the **Add New Hardware Wizard (Found New Hardware Wizard** for Windows 2000) may be displayed. If the wizard is displayed, **load the included installation CD-ROM into the CD-ROM drive of your PC** and install the USB driver manually as instructed below.

Windows 98/98SE

- 1 Click on **Next** on the **Add New Hardware Wizard** screen.**
- 2 Choose “Search for the best driver for your device (Recommended)” on the select search method screen, then click on **Next**.**
- 3 Select “Specify a location” on the search for new drivers screen, then click on **Browse**.**
- 4 Choose the drive on which the installation CD-ROM is loaded in the **Browse for Folder** dialog box, select the “USB_Step_1” folder, then click **OK**.**
- 5 Back on the search for new drivers screen, click on **Next**.**
- 6 Making sure that “BaromTec HMS30C6001 Reset Driver” is displayed on the Windows driver file search for the device screen, click on **Next**.**
- 7 Click on **Finish** on the finished installing the software screen.**
Another **Add New Hardware Wizard** screen for installing USB drivers appears.
- 8 Click on **Next**.**
- 9 Choose “Search for the best driver for your device (Recommended)” on the select search method screen, then click on **Next**.**
- 10 Select “Specify a location” on the search for new drivers screen, then click on **Browse**.**
- 11 Choose the drive in the **Browse for Folder** dialog box, select the “USB_Step_2” folder, then click **OK**.**
- 12 Back on the search for new drivers screen, click on **Next**.**
- 13 Making sure that “USB Flash Memory Controller Driver: Win98 (01/04/28)” is displayed on the Windows driver file search for the device screen, click on **Next**.**
- 14 Click on **Finish** on the finished installing the software screen.**

Windows Me

- 1 Select "Specify the location of the driver (Advanced)", then click on **Next** on the **Add New Hardware Wizard** screen.
- 2 Select "Search for the best driver for your device (Recommended)" on the search for new drivers screen, check "Specify a location:", then click on **Browse**.
- 3 Choose the drive on which the installation CD-ROM is loaded in the **Browse for Folder** dialog box, select the "USB_Step_1" folder, then click **OK**.
- 4 Back on the search for new drivers screen, click on **Next**.
- 5 Making sure that "BaromTec HMS30C6001 Reset Driver" is displayed on the Windows driver file search for the device screen, click on **Next**.
- 6 Click on **Finish** on the finished installing the new hardware device screen.
Another **Add New Hardware Wizard** screen for installing USB drivers appears.
- 7 After confirming that "Specify the location of the driver (Advanced)" is selected, click on **Next**.
- 8 Confirm that "Search for the best driver for your device (Recommended)" is selected and "Specify a location:" is checked on the search for new drivers screen, then click on **Browse**.
- 9 Choose the drive in the **Browse for Folder** dialog box, select the "USB_Step_2" folder, then click **OK**.
- 10 Back on the search for new drivers screen, click on **Next**.
- 11 Making sure that "USB Flash Memory Controller Driver: Win98 (01/04/28)" is displayed on the Windows driver file search for the device screen, click on **Next**.
- 12 Click on **Finish** on the finished installing the new hardware device screen.

Windows 2000 Professional

- 1 Click on **Next** on the **Found New Hardware Wizard** screen.
- 2 Choose “Search for a suitable driver for my device (recommended)” on the **Install Hardware Device Drivers** screen, then click on **Next**.
- 3 Choose “CD-ROM drives” on the **Locate Driver Files** screen, then click on **Next**.
- 4 Click on **Next** on the **Driver Files Search Results** screen.
- 5 Click on **Finish** on the **Complete the Found New Hardware Wizard** screen.

Postinstallation Checking

Check to see if the driver software has been properly installed.

Connect the IC Recorder to a PC.

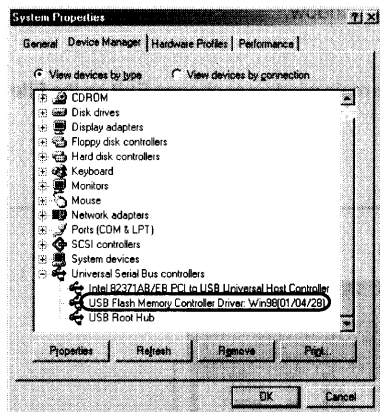
- 1 Click on **Start** on the Desktop, point to **Settings**, then click on **Control Panel**.
- 2 Double-click on **System**.
- 3 *Windows 98/98SE/Me:*

Click on the **Device Manager** tab in the **System Properties** dialog box.

Windows 2000 Professional:

Click on the **Device Manager** button under the **Hardware** tab in the **System Properties** dialog box.

4 Make sure that “USB Flash Memory Controller Driver: Win98 (01/04/28)” is displayed under the “Universal Serial Bus controllers” in the Device Manager screen.



If the USB driver has not been properly installed

Delete AIWA IC-DP200 in **Add/Remove Programs** in the **Control Panel** and reinstall the USB driver.

Tip

IC-DP200 Manager is installed by default to the following folder:

c:\Program Files\Aiwa\IC-DP200

The following folders are also created in the c:\AIWA folder:

IC-DP200 folder
├── eMail folder*
├── picture folder
└── voice folder

* Message files converted for file attachment (.wav or executable voice files) are saved automatically to the eMail folder.

Note

Do NOT delete the voice, picture, or eMail folders that have been created when IC-DP200 Manager is installed, or their parent folder, IC-DP200 folder, or the AIWA folder. If these folders are deleted, new ones will be recreated automatically when IC-DP200 Manager is restarted.

Launching IC-DP200 Manager

1 Connect the IC Recorder to a PC via the included USB cable (page 40).

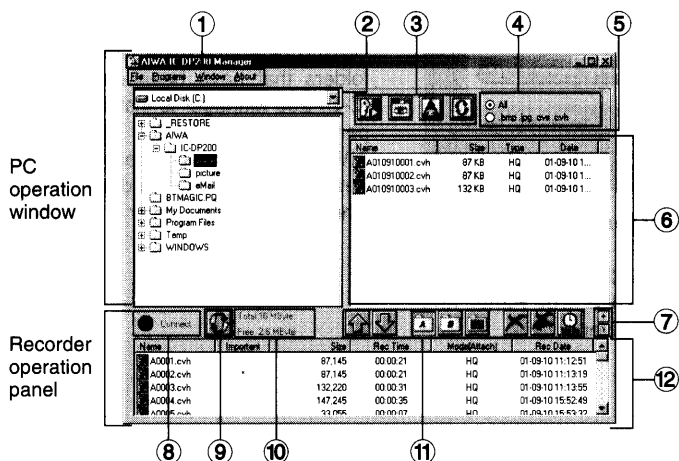
2 Click on  on the Desktop.

IC-DP200 Manager launches to open a main window.

Exiting IC-DP200 Manager

Either click on  in the upper-right corner of the main window or choose **Exit** on the **File** menu.

IC-DP200 Manager Main Window



PC
operation
window

Recorder
operation
panel

<PC operation window>

① Menu bar

Choose menu commands from the 4 menus to perform various operations.

File Menu

Exit

Exits IC-DP200 Manager.

Programs Menu

Voice Player

Launches the utility to play voice files.

Image Viewer

Launches the utility to open and edit image files.

Image Window

Launches the utility to view thumbnails of image files.

Window Menu

Size++

Choose this option to widen the recorder operation panel upward.

Size--

Choose this option to widen the PC operation window downward.

About Menu

About IC-DP200 Manager

Displays version information.

⑥ File list

Lists the files and folders stored in the folder selected from the folder list. The file names, sizes, types, and dates of the files are displayed.

Clicking on the header of a column will sort the files by the information in that column.

Right-click on a file on the file list to open a menu for handling it (see the "Shortcut Menus" section (page 49)).

⑦ Window sizing buttons

Click on  to widen the recorder operation panel upward.

Click on  to widen the PC operation window downward.

<Recorder operation panel>

⑧ (Connection status indicator)

This indicator is lit in blue when the IC Recorder is connected to a PC, displaying "Connect," and in red when the IC Recorder is not connected to a PC, displaying "Link Error."

⑨ (USB Refresh button)

Updates the status of USB connection of the IC Recorder to a PC.

⑩ Memory usage status indicator

Displays the total size of memory installed in the IC Recorder and the available size.

② Drive Selection list

Select the desired drive from the list.

③ Tool buttons



(Voice player button)

Click on it to launch Voice Player.



(Image window button)

Click on it to launch Image Window.



(Image viewer button)

Click on it to launch Image Viewer.



(Folder refresh button)

Click on it to update the folder display.

④ Filter buttons

Specify the types of files that are shown on the file list.

All	Displays all files.
.bmp .jpg	Displays files with the .bmp, .jpg, .cvs, or .cvh extension only.
.cvs .cvh	

⑤ Folder list

Lists the folders existing on the selected drive.

11 Recorder operation buttons



(Upload button)

Transfers data stored in the IC Recorder to the folder selected from the folder list.



(Download button)

Retransfers voice data that has been transferred to the PC to the IC Recorder.



(Voice A Folder button)

Displays the messages stored in folder A of the IC Recorder on the recorder file list.



(Voice B Folder button)

Displays the messages stored in folder B of the IC Recorder on the recorder file list.



(Camera Folder button)

Displays the images stored in the IC Recorder on the recorder file list.



(Erase Set File button)

Erases the message or image selected from the recorder file list.



(All Erase button)

Erases all messages and images stored in the IC Recorder.



(Set Time Mode button)

Toggles the time indicator mode of the IC Recorder between 24- and 12-hour formats.

12 Recorder file list

Lists the messages or images stored in the folder selected with  , or . The file names, priority mark, sizes, durations, recording modes (voice memos), and dates and times of recording of the files are displayed.

Note

Clicking on  or  will erase messages and images that bear the priority mark (★) and those that do not. Use maximum care when performing this erasing procedure.

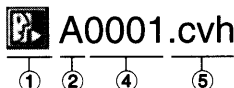
Tips

- Files bearing the priority mark (★) are marked with an asterisk "*" in the **Important** column.
- Image data with a voice memo attachment are marked with an asterisk "("*)" in the **Mode (Attach)** column.

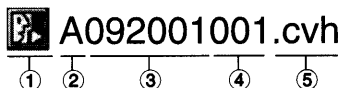
File-Naming Convention

Files that are displayed by IC-DP200 Manager are named according to the following naming convention:

File before transfer



File after transfer



① File type

 : Voice file

 : Image file

② Recorder folder name

A: Folder A

B: Folder B

P: Camera folder

③ Recording/shooting date

The message shown in the example above was recorded on September 20, 2001.

④ Record/image number (folder-specific sequence number)

Files recorded on this IC Recorder are each assigned a consecutive number in the order of recording or shooting. When files are transferred from the IC Recorder to a PC, they are each assigned a number that is consecutive in the destination folder, regardless of their pretransfer sequence numbers.

⑤ Extension

.cvh: Voice file recorded in HQ mode

.cvs: Voice file recorded in LP mode or voice memo file

.cis: Image file recorded on this IC Recorder*

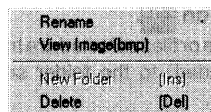
.bmp: Bitmapped image file

.jpg: JPEG image file

* Image files are converted to the bitmapped format (.bmp) when transferred to a PC. When an image file with a voice memo attached is transferred to a PC, two files having the same file name are generated: a bitmapped file (.bmp) and a voice file (.cvs).

Shortcut Menus

You can rename a file shown on the file list in the PC operation window, open Image Viewer, create a new folder, and erase a file or folder by selecting from among the menu commands that are displayed when you right-click on the desired listed item.



Note

Different sets of menu commands are shown depending on whether you right-click on a file or anywhere in a blank area in the file list.

Transferring Files Recorded or Shot with the IC Recorder to the PC (Upload)

- 1 Select a drive from the Drive Selection list in the PC operation window and then select a destination folder from the folder list.

- 2 Click on , , or  to select the folder on this IC recorder holding the file or files to transfer.

- 3 Click on the file or files to transfer from the recorder file list.

You can select multiple files by clicking on them while holding down the CTRL key.

You can also select a sequence of files by clicking on the first file in the sequence and then clicking on the last while holding down the SHIFT key.

- 4 Click on .

The file or files selected are transferred (uploaded) to the folder selected in step 1.

Notes

- When a file is transferred from the IC Recorder to a folder on a PC, it is assigned the number next to the last file in the folder, regardless of its file number in the IC Recorder.
- If files bearing the priority mark (★) are transferred, the mark is not shown in the file list in the PC operation window.
- If a file is transferred from the IC recorder to a PC without the time and date being used, the time and date of file transfer is set as the time and date of update for that file.

Transferring Voice Files Transferred to the PC Back to the IC Recorder (Download)

Note

Only voice files that have been recorded on the IC Recorder can be downloaded from a PC to the IC Recorder.

- 1 Click on  or  to select a destination folder on the IC Recorder.

- 2 Click on the file to download from the file list in the PC operation window.

- 3 Click on .

The file selected is retransferred (downloaded) to the folder selected in step 1.

Notes

- When a file is transferred from a PC to the IC Recorder, it is assigned the number next to the last file in the folder, plus the destination folder name (A or B).
- Image files cannot be downloaded, or the camera folder cannot be selected to be a download destination.
- More than one voice file cannot be selected and downloaded at a time.

Playing Voice Files Transferred on the PC

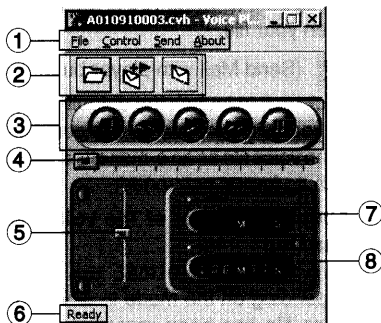
- 1 Select a drive from the Drive Selection list in the PC operation window and then select the folder from the folder list that holds the voice file to play.
- 2 Double-click on the voice file to play in the file list.
Voice Player launches to load the file.
- 3 Click on .
- 4 Click on  to stop playing.

Tip

You can also launch Voice Player by clicking on the tool button  in the PC operation window. When Voice Player is launched this way, select **Open** from the Voice Player **File** menu and select the voice file you want played.

Voice Player

Voice Player allows you to play voice files or send voice files as e-mail attachments.



1 Menu bar

Choose menu commands from the 4 menus to perform various operations.

File Menu

Open

See the explanation for  (Open button) under "Tool bar" below.

Date Information

The file name, file size, and the recording date of the selected file are shown.

Exit

Exits the Voice Player.

Control Menu

See the explanation under "Player Control buttons" below.

Send Menu

See the explanations for  (Send Mail with player button) and  (Send Mail button) under "Tool bar" below.

About Menu

About Voice Player

Displays version information.

② Tool bar



(Open button)

Click on it to display the **Open Files** dialog box, allowing you to locate and open your file.



(Send Mail with player button)

Click on it to launch the default mailer in your PC and send the currently open voice file as an e-mail attachment with its format converted.

About the format of the voice file attached

Two types of format are used depending on the mode in which the voice file has been recorded. Voice files recorded in HQ mode are converted to a WAVE file having the .wav extension. Voice files recorded in LP mode are converted to an executable file format with simple playback software embedded in it.

Notes

- Voice files that are attached to e-mail created with this button become larger in size than the original files.
- While voice files recorded in LP mode are converted to an executable file format, your mailer may not allow executable files to be sent or received.
- For instructions on how to send e-mail created, refer to the instruction manual for your mailer.



(Send Mail button)

Click on it to launch the default mailer in your PC and send the currently open voice file as an e-mail attachment.

Note

E-mail created with this button has the AIWA Website URL given automatically. If the recipient is unable to play the attached file, advise the recipient to download dedicated software from the AIWA Website.

③ Player control buttons



(Stop button)



(Rewind button)



(Play button)



(Fast Forward button)



(Pause button)

Each time you click on the Rewind or Fast Forward button, the current play position in the voice file is moved backward or forward about 7 seconds, respectively.

④ Playback position slider

Drag the slider while the IC Recorder is playing or paused to start playing the voice file at any point you like.

⑤ Sound volume slider

Drag the slider upward to turn up the sound volume or downward to turn it down.

⑥ Status bar

Indicates the current status.

⑦ PLAY TIME indicator

Displays the elapsed time while the IC Recorder is playing a voice file.

⑧ REC TIME indicator

Displays the recording duration of an open voice file.

Viewing Thumbnails of Image Files

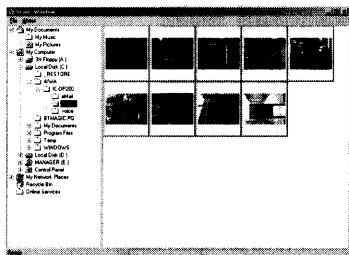
You can view thumbnails of image files that have been transferred.

- 1 Click on  in the PC operation window or choose **Image Window** from the **Programs** Menu.

Image Window launches.

- 2 Select the folder holding the files you want to view in the left pane of Image Window.

Thumbnails of the image files will be displayed in the right pane of Image Window.



Point to the thumbnail of an image file to display its file name and size.

To Get an Enlarged View of an Image

Double-click on the thumbnail of the image file you want to view enlarged.

Image Viewer launches to give you an enlarged view of the image file.

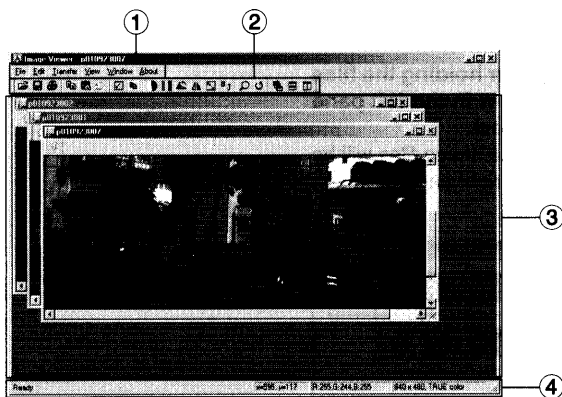
Tip

You can also launch Image Viewer by either double-clicking on an image file listed in the IC-DP200 Manager main window or clicking on .

Viewing and Editing Image Files

You can view transferred images and edit them in a variety of ways, such as copying, zoom in and out, rotation and flipping, trimming, contrast and brightness adjustment, sharpening, and edge detection. You may also convert them to JPG files and compose e-mail with file attachments.

Image Viewer Window



① Menu bar

File Menu

Open

Opens an image file to view or edit.

Close

Closes an image file.

Save

Saves an image file.

Save as

Saves an image file under another name. Specify whether to save the file as a bitmapped file (BMP) or JPEG file (JPG).

Print

Prints an open image file.

Print Preview

Previews a printed image of an open image file.

Print Setup

Selects a printer to use for printing image files or specifies the type of form to print on.

E-Mail

Creates e-mail with the open image file attached to it. For more details, see the "E-mailing an Image" section (page 60).

File Property

Displays information about an open image file, including the file format, file name, creation time and date, and size.

Exit

Exits Image Viewer.

Edit Menu

Undo

Reverses the most recently performed action.

Copy

Copies an open image or a selection of an image.

Paste

Pastes a copy of an image or a selection of an image to a new window.

Copy Selection

Area Selection

Copies a selection of an image to be trimmed.

Select **Area Selection** again to deselect it.

Area Copy

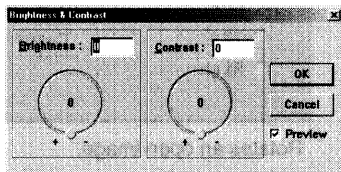
Pastes the selection of an image made in **Area Selection** to a new window.

For more details, see the “Cutting Out an Unwanted Part of an Image (Trimming)” section (page 59).

Transfer Menu

Brightness/Contrast

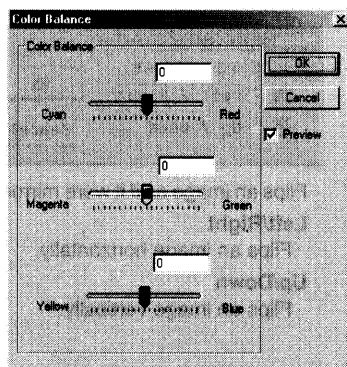
Adjusts the brightness and contrast of an image.



Click on anywhere on a circumference or enter a value for adjustment.

If the **Preview** option is checked, you can make brightness/contrast adjustments while verifying their effects.

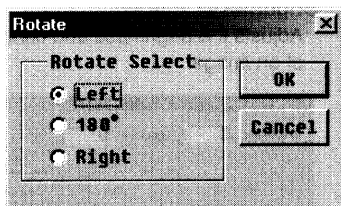
Color Balance



Drag the sliders or enter numeric values for hue adjustment.

If the **Preview** option is checked, you can make color adjustments while verifying their effects.

Rotate canvas



Rotates an open image.

Left

Rotates the image 90 degrees counterclockwise.

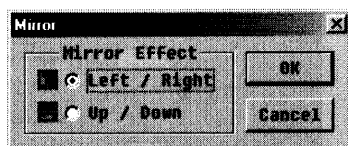
180°

Rotates the image 180 degrees.

Right

Rotates the image 90 degrees clockwise.

Mirror



Flips an image as if it were mirrored.

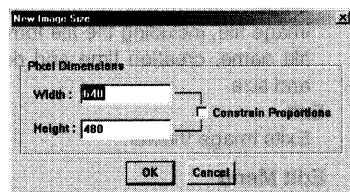
Left/Right

Flips an image horizontally.

Up/Down

Flips an image vertically.

Image Size



Resizes an open image.

Values between 50 and 2,000 pixels can be specified for both width and height.

If the **Constrain Proportions** option is checked, the image can be resized while retaining the width to height ratio.

Jpg Convert

Converts an open image from the bitmapped format to the JPEG format.

The resultant file is stored in the same folder as the original file.

Filtering

Invert

Reverses colors.

Blur

Moderates contrast to blur an image.

Sharpen

Emphasizes contrast to sharpen an image.

Edge Detection

Emphasizes edges.

Emboss

Adds an embossment effect to an image.

View Menu

Tool Bar

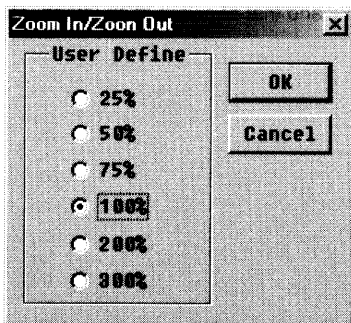
Click on the command to check it and the tool bar will be displayed. To clear the tool bar, click on the command again to uncheck it.

Status Bar

Click on the command to check it and the status bar will be displayed at the bottom of the screen, displaying image information, mouse pointer location, operational hints, etc. To clear the status bar, click on the command again to uncheck it.

Zoom In/Zoom Out

Zooms in or out an image.



Original Size

Resets an image zoomed in or out by Zoom to its original size.

Window Menu

Cascade

Arranges multiple windows slightly shifted from one another.

Horizontal

Arranges multiple windows aligned horizontally.

Vertical

Arranges multiple windows aligned vertically.

About Menu

About Image Viewer

Displays version information about Image Viewer.

② Tool bar



(Open button)

Opens a folder and then opens an image in it.



(Save button)

Saves an image file.



(Print button)

Prints an open image file.



(Copy button)

Copies an image or a selection of an image.



(Paste button)

Pastes a copy of an image or a selection of an image to a new window.



(Undo button)

Reverses the most recently performed action.



(Select Copy Region button)

Copies a selection of an image to be trimmed.



(Copy Region button)

Pastes a selection of an image to a new window.



(Bright/Contrast button)

Adjusts the brightness and contrast of an image.



(Color Balance button)

Adjusts the hue of an image.



(Rotate button)

Rotates an open image.



(Mirror button)

Flips an image vertically or horizontally.



(Image Resize button)

Resizes an image.



(JPG Convert button)

Converts an image from the bitmapped format to the JPEG format.



(Zoom Out/In button)

Zooms in or out an image.



(Original Size button)

Resets an image to its original size.



(Cascade Align button)

Arranges multiple windows slightly shifted from one another.



(Horizontal Align button)

Arranges multiple windows aligned horizontally.



(Vertical Align button)

Arranges multiple windows aligned vertically.

③ Image display area

Displays open images.

④ Status bar

Displays information about the function of the menu command or button that is pointed to by the mouse pointer, coordinate location of the mouse pointer navigating over an image and its RGB values, the number of pixels and that of colors of an image, etc.

Viewing an Image File

- 1 Select a drive from the Drive Selection list in the PC operation window and then select the folder from the folder list that holds the image file to view.

- 2 Double-click on the image file to view and edit in the file list.

Image Viewer launches to load the image file.

Tips

- You can also launch Image Viewer by clicking on the tool button  in the PC operation window.
- When an image with a voice memo attachment is displayed, the clip mark  in the upper left corner of the window in which the image is displayed will light in red. Click on this clip mark to launch Voice Player. Click on  (Play button) to play the voice memo.

Cutting Out an Unwanted Part of an Image (Trimming)

- 1 Launch an Image Viewer to display an image file as instructed in the "Viewing an Image File" section.

- 2 Click on  on the tool bar.

- 3 Drag on the image to select the area to copy.

- 4 Click on  on the tool bar.

A new window opens displaying the selection of the image.

- 5 Click on  on the tool bar.

The **Save As** dialog box is displayed.

- 6 Choose where to save the image file, type a new file name, and then click on **Save**.

Specify a file type (BMP files (*.BMP) or JPG files (*.JPG)) to save.

E-mailing an Image

When you wish to e-mail an image after making any modification to it, such as trimming, save it once before starting the procedure below.

- 1 Launch an Image Viewer to display an image file as instructed in the “Viewing an Image File” section.**
- 2 Click on **Email** from the **File** menu on the menu bar.**
The default mailer in your PC launches to create e-mail with the open image file attached to it.
- 3 Type the recipient’s address, subject, and body text, then click on the button assigned sending e-mail function.**

Note

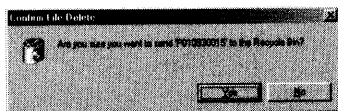
For instructions on how to send e-mail created, refer to the instruction manual of your mailer.

Erasing Files

The erasing procedures described in the following sections can be performed in the IC-DP200 Manager window. Launch IC-DP200 Manager before starting these procedures.

Erasing Files Transferred to the PC

- 1 Select a drive from the Drive Selection list in the PC operation window and then select the folder from the folder list that holds the image file to erase.**
- 2 Click on the file or files to erase from the file list.**
You can select multiple files by clicking on them while holding down the CTRL key.
You can also select a sequence of files by clicking on the first file in the sequence and then clicking on the last while holding down the SHIFT key.
- 3 Right-click on a selected file to see a menu. Click on **Delete** on the menu or press the Delete key on the keyboard.**
The **Confirm File Delete** screen is displayed.



- 4 To erase the file, click on **Yes**.**

Erasing Files Stored on the IC Recorder

- 1 Click on , , or  in the main window to select a folder on the IC Recorder from which to erase files.

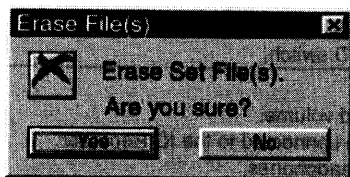
- 2 Click on the file or files to erase from the recorder file list.

You can select multiple files by clicking on them while holding down the CTRL key.

You can also select a sequence of files by clicking on the first file in the sequence and then clicking on the last while holding down the SHIFT key.

- 3 Click on .

A dialog box is displayed to confirm that you wish to delete the selected files.

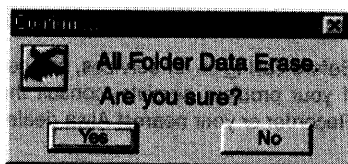


- 4 To erase the file, click **Yes**.

Erasing All Messages and Images Stored on the IC Recorder at Once

- 1 Click on the recorder operation button .

A dialog box is displayed to confirm that you wish to delete all files.



- 2 To erase the files, click on **YES**.

Notes

- Total erasure will erase all the data stored in the IC Recorder's memory, as well as the files in the currently selected folder.
- All data will be erased, including messages and images bearing the priority mark (★).

Miscellaneous

Care

When the surfaces of the IC Recorder are found to be smeared, wipe them with a soft, dry cloth. To remove strong smears, wipe them off with a cloth slightly moistened with a diluted neutral detergent solution. Never use organic solvents, such as thinner, benzene, or alcohol, as cleaning fluids. They will harm the surfaces of the IC Recorder.

Troubleshooting

Before calling us for services, please check the items listed below.

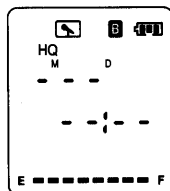
If your problem persists, consult the store where you purchased the IC-DP200 IC Recorder or your nearest Aiwa dealer.

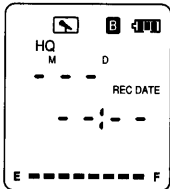
Symptom	Action
The IC Recorder is inactive even when a button is pressed	• The batteries are not properly loaded. → Reload the batteries oriented correctly. • The batteries have insufficient charge. → Replace with new batteries. • "HOLD" flashes 3 times in the display window when a button is pressed. → Release the HOLD switch.
No sound comes out of the built-in speaker	• Low sound volume → Turn up the sound volume. • The headphones are connected to the IC Recorder. → Disconnect the headphones.
Unable to record	• Memory is full. → Once memory becomes full even though fewer than 100 record numbers have been used, further recording is disabled. Erase messages that are no longer necessary or transfer them to a PC.
Unable to shoot	• Memory is full. → Once memory becomes full even though fewer than 200 image numbers have been used, further shooting is disabled. Erase pictures that are no longer necessary or transfer them to a PC.

Symptom	Action
Unable to record up to the maximum recording time, or remaining recording time has diminished suddenly	• Voice and images are stored in shared memory. As more images are recorded, therefore, the time available for recording voice decreases according to the number of images recorded. • Even if the IC Recorder is used exclusively for recording, it would end up somewhere between the maximum recording time in HQ mode and that in LP mode after the mixed use of HQ mode and LP mode. • Voice is recorded in certain minimum recording units (HQ mode: about 4 seconds, LP mode: about 16 seconds). Fractions of the duration of each voice file are rounded upward in these units. Consequently, as more messages are recorded, the available recording time may become shorter than the maximum recording time.
Unable to shoot up to the maximum recording capacity, or remaining recording capacity has diminished suddenly	• Voice and images are stored in shared memory. As more voice files are recorded, therefore, the maximum image recording capacity decreases according to the duration of voice recorded.
Unable to erase messages and images	• The messages and images have the priority mark (★) attached to them. → Messages and images bearing the priority mark cannot be erased. Clear the priority mark before erasing them. → Even if an attempt is made to erase all the messages and images in a selected folder at once, those bearing the priority mark are protected from erasure. Clear the priority mark before erasing them.
Unable to add an index (unable to divide a message)	• If more than 100 messages are recorded in a folder, they can no longer be indexed. • It may happen that index addition is disabled after frequent runs of message divide/join through index insert/delete operations.
Unable to delete an index (unable to join messages)	• The index between two messages that have been recorded in different recording modes (HQ/LP) cannot be deleted. • It may happen that index deletion is disabled after frequent runs of message divide/join through index insert/delete operations.

Miscellaneous

Symptom	Action
Noises	- Noise interferences may occur if you bring the IC Recorder closer to an electric light line, fluorescent lamp, cell phone or the like during recording or playback. - An external microphone too close to the IC Recorder or the headphones could pick up noises or shrieking howling. → Keep the external microphone away from the IC Recorder or the headphones for recording. - A dirty attachment plug when recording with an external microphone or any other apparatus could also pick up noises. → Clean the attachment plug for recording.
Recording won't complete	V-SENSOR is set to ON. → Set V-SENSOR to OFF for recording.
Recorded sound is low as a whole	The microphone sensitivity is set to Lo. → Set the microphone sensitivity to HI for recording.
Recorded music sounds erratic	This IC Recorder adjusts the recording level automatically to suit natural sound, such as human voice. If music is recorded, it may sound choked, but this is not a failure.
The IC Recorder takes time before it is ready for shooting when switched to Camera mode	The image encoding circuit needs about 6 seconds before it works.
Recorded images appear dark	This IC Recorder is not suitable for taking pictures in dark places, as in the nighttime.
The clock in the display window appears like this	The clock has not been set. → Set the clock.



Symptom	Action
The recording time and date display appears like this 	If the clock has not been set, the display window won't display the recording/shooting time and date when it is set to the recording time and date display. → Set the clock.
Pressing the menu button displays the SET DATE screen every time	This SET DATE screen is displayed if the clock has not been set. → Set the clock.
The IC Recorder malfunctions or displays unusually	→ Remove the batteries once and then reload them about 30 seconds later. → Press the RESET button.
IC-DP200 Manager won't recognize this IC Recorder (the connection status indicator will light in red)	- The USB cable is not connected properly. → Reconnect the USB cable before relaunching IC-DP200 Manager. - The IC Recorder was connected to a PC after IC-DP200 Manager had launched. → Connect the IC Recorder to the PC before relaunching IC-DP200 Manager.
Unable to transfer data from the PC to the IC Recorder	- The IC Recorder's flash memory is insufficient. → Erase unnecessary messages or transfer them to the PC. - One hundred messages have already been recorded in the destination folder. → Erase unnecessary messages or transfer them to the PC. - You are attempting to download an image file. → Image files cannot be downloaded.

Miscellaneous

Symptom	Action
Transfers take time	• Transfers may take time depending on the performance of your PC. → Exiting any other software running concurrently may help somewhat improve the situation.
No sound comes out of the PC	• The Mute check box is selected on the volume control screen, or the sound volume slider is down. → Uncheck the Mute check box or raise the sound volume slider to turn up the volume.
An image transferred to the PC has an increased size	• Images transferred to a PC are stored in the bitmapped (BMP) format each in a size of about 900 KB. → If images are converted to the JPEG format using Image Viewer, the file size would be reduced to about one-twentieth.
Images print in different colors	• The scheme of color reproduction differs between the PC display and the printer, so that images may print in different colors from their display.
An image is not recorded the same way as it is viewed through the viewfinder	• Use the image appearing in the viewfinder only for reference purposes during shooting. → Before shooting an important subject, measure the distance to the subject and test-shoot.

Note

Never disconnect the USB cable while a data transfer is in progress. The IC Recorder would become inoperable. If the IC Recorder gets inoperable, reset the recorder as instructed in the "If the IC Recorder Malfunctions or the Display is Abnormal - How to reset" section (page 10).

If the IC Recorder still fails to recover, do the following:

- 1 Opening the battery compartment, remove one battery.
- 2 Holding down the REC/STOP button and the ERASE button firmly, replace the removed battery in original position and wait for at least 3 seconds before releasing the buttons.
"ALL CLEAR" will flash in the display window.
- 3 Press the ERASE button again.
The IC Recorder should return to an operable state.

Execution of this procedure would clear all data other than the clock setting, including the messages and images stored in the IC Recorder.

Specifications

Storage media

Built-in flash memory (16 MB)

Frequency range

500 to 3,500 Hz

Microphone

Built-in electret condenser microphone (monaural)

Maximum working output

100 mW (8 Ω) (EIAJ)

Input terminal

External microphone jack (monaural minijack)

Output terminal

Headphone jack (stereo minijack)
• Output sound is monaural.

Speaker

28-mm (1 $\frac{1}{8}$ -in.) diameter, 8 Ω

Voice storage formats

HQ : ADPCM (MI-SC4)

LP : G.729

Image storage format

In the IC Recorder : cis

In the PC : Bitmapped

Pickup device

CMOS, 310,000 pixels

Recording pixels

640 $\times$ 480 pixels

Shooting range

0.7 m (27 $\frac{5}{8}$ in.) – ∞

Viewfinder

Optical real image viewfinder

PC interface

USB cable

Power source

DC 3V using two size AAA (LR03) alkaline batteries

Maximum recording times

About 60 minutes (HQ recording mode)

About 260 minutes (4 hours 20 minutes)

(LP recording mode)

Maximum shooting capacity

200 images

Battery durations

Recording	HQ	LP
	About 14 hours	About 9.5 hours
Playback	Speaker	Headphones
	About 8 hours	About 14 hours
Shooting	600 images or more	

Maximum physical size

42 (W) $\times$ 115 (H) $\times$ 20 (D) mm (1 $\frac{11}{16}$ (W)
 $\times$ 4 $\frac{5}{8}$ (H) $\times$ $\frac{13}{16}$ (D) in.) (excluding
projections)

Mass

About 65 g (2.3 oz.) (excluding batteries)

Accessories

- USB cable
- Installation CD-ROM
- Carrying pouch
- Hand strap

Specifications and appearance are subject to change without notice.

The Aiwa Web site provides the latest information and Q&A (FAQs), the latest releases of the software, etc.

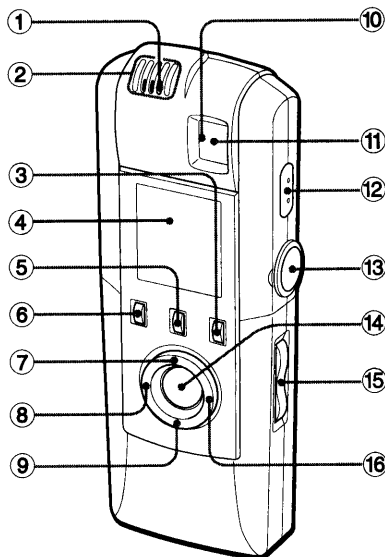
For the latest information and Q&A (FAQs), go to:

<http://www.aiwa.co.jp/products/portable/2001/ic/ic-dp200.html>

The latest releases of software can be downloaded from:

<http://www.aiwa.co.jp/products/portable/2001/download/ic-dp200/>

Component Names and Functions



① Record/Play lamp

Lights in red when the IC Recorder is recording and in green when it is playing. It flashes in orange when the IC Recorder has recording/playback paused.

② Built-in microphone

③ DISPLAY button

Each time the DISPLAY button is pressed, the screen display changes from the current time indicator to the record/image number indicator, to the record/shoot date indicator, to the memory status indicator.

④ Display window (page 71)

⑤ MENU/PAUSE button

- Hold this button pressed for about 1 second with the IC Recorder stopped to set the clock, set the microphone sensitivity, turn on or off the V-SENSOR feature, and set a recording mode via the menu screen.
- Press this button with the IC Recorder recording or playing to pause recording or playback.

⑥ INDEX button

- Press this button with the IC Recorder recording or playing to index the message being recorded or already recorded.

⑦ ▲ REPEAT/FOLDER button

- Press this button with the IC Recorder stopped in Voice mode to toggle between folder A and B.
- Press this button with the IC Recorder playing to specify the 2 points between which A-B repeat playback is to be performed.
- Hold this button pressed for about 1 second with the IC Recorder playing to repeat the current file.
- Press this button in Menu mode to select functions to be set.

⑧ ⏮ button

- Press this button with the IC Recorder playing or stopped to cue the current message or the previous message.
- Hold this button pressed with the IC Recorder stopped to cue messages continuously.
- Hold this button pressed with the IC Recorder playing to rewind the current message.
- Press this button in Camera mode to decrement the image count by one.

⑨ ▼/PRIORITY button

- Press this button to attach a priority mark (★) to a message or image. Press again to clear the mark.
- Press this button in Menu mode to select functions to be set.

⑩ Shutter lamp

- In Camera mode, this lamp lights in red, then about 6 seconds later lights in green.
- When shooting continuously, wait for this lamp to light in green before pressing the SHUTTER button.

⑪ Viewfinder

Look through the viewfinder to establish your composition.

⑫ REC/STOP button

- Press this button to start recording. Press again to stop.
- Hold this button pressed for about 1 second with the IC Recorder playing a voice memo to append a memo to it.

⑬ SHUTTER button

- Hold this button pressed for about 1 second in standby state to invoke Camera mode.
- Press this button in Camera mode to take pictures.

⑭ ►/■ button

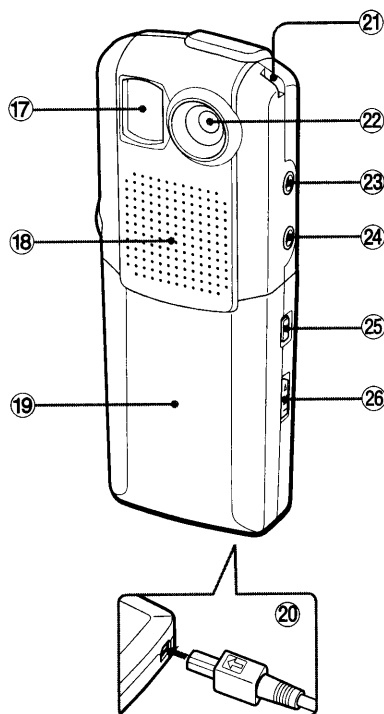
- Press this button with the IC Recorder stopped to start playing.
- Press this button with the IC Recorder playing to stop playback.
- Press this button with the IC Recorder recording to stop recording and play the message from the beginning.
- Hold this button pressed for about 1 second with the IC Recorder playing or stopped to start scan playback.

⑮ VOL button

Press the + or – side to adjust the sound volume.

⑯ ►► button

- Press this button with the IC Recorder playing or stopped to cue the next message.
- Hold this button pressed with the IC Recorder stopped to cue messages continuously.
- Hold this button pressed with the IC Recorder playing to fast-forward the current message.
- Press this button in Camera mode to increment the image count by one.



17 Viewfinder window

18 Speaker

19 Battery compartment

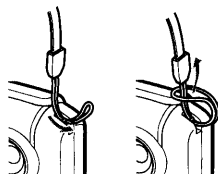
Load two size AAA (LR03) alkaline batteries.

20 USB connector

Connect the Series B (small) connector of the USB cable included to the USB connector of the IC Recorder.

21 Hand strap grip

Attach the hand strap included to this grip.



22 Lense

23 (headphone) jack (stereo minijack)

Connect a commercially available headphone or earphone with a miniplug (3.5-mm in diameter) to this jack.

- Output sound is monaural. The same sound will be heard from both channels of stereo headphones.

24 EXT.MIC (external microphone) jack (monaural minijack)

Connect a commercially available electret condenser microphone with a miniplug (3.5-mm in diameter) to this jack.

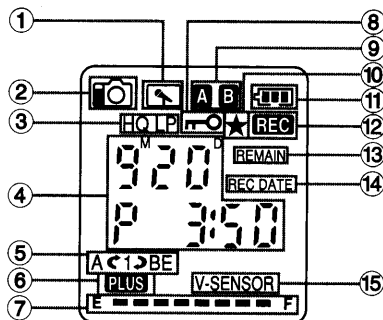
25 ERASE button

Use this button to erase a selected message or image or join messages.

26 HOLD switch

Release the HOLD switch before use. Keep the HOLD switch slid to the arrow mark when carrying the IC Recorder in your pocket or bag. This will prevent the recorder from being activated when a button is pressed accidentally.

Display Window



① Voice mode indicator

- Displayed when the IC Recorder is running in Voice mode.
- Displayed when the IC Recorder is recording or playing a voice memo, or stopped in Camera mode.

② Camera mode indicator

Displayed when the IC Recorder is running in Camera mode.

③ Recording mode indicator

Indicates the recording mode of the current choosing when the IC Recorder is running in Voice mode. The recording mode can be selected between HQ (high quality) and LP (long play).

④ Date/time indicator

Indicates today's date, current time and so forth.

The "P" sign preceding the time indicator represents p.m.

⑤ Repeat play indicator

Displayed when the IC Recorder is running an A-B repeat playback or single message repeat playback.

⑥ Voice memo indicator

Flashes when the IC Recorder is recording or playing a voice memo, or stopped in Camera mode.

⑦ Memory status bar

Indicates the remaining level of memory. As available memory diminishes, the memory status bar is erased segment by segment from right to left.

⑧ HOLD (hold) mark

Lights when the HOLD switch is at the HOLD position.

⑨ Folder indicator

Indicates the folder of the current choosing when the IC Recorder is running in Voice mode. The folder can be selected between folders A and B.

⑩ Priority mark indicator

Displayed when the priority mark (★) is attached to a message or image.

⑪ Battery indicator

Indicates the remaining voltage of the batteries at one of four levels.

⑫ Recording indicator

Displayed while the IC Recorder is recording.

⑬ REMAIN indicator

Displayed while the IC Recorder is showing the remaining memory status.

⑭ REC DATE indicator

Displayed while the IC Recorder is set to display the recording/shooting time and date.

⑮ V-SENSOR indicator

Displayed while the IC Recorder has V-SENSOR feature turned on.

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